



Memorandum

To: The Mayor and Members of the City Council
From: Shannon Beaucaire, City Manager
Subject: Revisions to Carlton Street Tree List
Council Goal: Goal 2: Housing and Livability
Date: August 13, 2024

Recommendation

One way to approach this discussion is to divide the discussion into sections. A suggested format is listed below in the background section of the memo. By approaching the discussion by sections, if the Council would like more information on a particular section, it's worth noting that the Oregon Department of Forestry ("ODF") hired a former urban forester from the City of Corvallis in May 2024. She has visited Carlton and has expressed her willingness to assist Carlton with future urban community forestry (UCF) efforts.

The Council could request her attendance at a future Council meeting and/or further input into a specific section or question. If the Council requires additional information from the Planning Commission or PGE, it provides time to arrange that as well.

Once the Council has reached an agreement on all sections, we will bring forth a resolution to adopt the agreed-upon list.

Background

In 2021, the Planning Commission did extensive work on developing an updated street tree list with a greater variety of options to provide more diversity in the Carlton tree canopy. At the time of recommendation to the Council, the Council had begun the Comprehensive Plan and Development Code update.

It was decided:

- 1) to wait until those updates were completed to review the list, and
- 2) receive input from PGE and the ODF.

While the original exhibits are included in this packet, Exhibit 1 combines the planning commission information, with feedback from PGE and ODF into one spreadsheet.

The header of each page identifies the items provided by the planning commission and adds:

- The spread noted by PGE, if available;
- The canopy area by PGE, if available;
- The soil by PGE, if available;
- PGE comments; and
- ODF comments.

Additionally, the rows are color-coded.

- Green = All organizations **agree** on the appropriateness of the tree as a street tree. However, there may still be notes of considerations for the Council to discuss.
- Yellow = An organization identified **cautionary concerns** about the appropriateness of the tree as a street tree.
- Red = An organization identified **significant reservations** about the appropriateness of the tree as a street tree.

Other items of note:

- The varying perspectives amongst the organizations. For example, the commission and PGE might agree on the appropriateness of the tree but ODF has concerns about susceptibility to a specific disease/pest or the perspective of suitability under power lines may differ.
- PGE notes primarily stop after the small tree section because that is what their list focuses on for street trees.
- PGE list may not have specific cultivars/varieties.
- ODF was also unfamiliar with a couple of cultivars/varieties.

Suggested discussion arrangement

Set up for the ease of continuing to another meeting as necessary

1. Prohibited Tree Section (page 10):
 - a. Does the Council agree with the 7 proposed prohibited trees recommended by the Planning Commission?
 - b. Does the Council agree with ODF's recommendations to add to the prohibited tree section?

2. Red color-coded rows:

- a. Does the Council agree to remove the 10 trees that either PGE or ODF had concerns with?
- b. Is additional information needed for any of the 10 trees?

Page 1

1. Acer buergerianum
2. Acer tataricum
3. Acer truncatum x A. platanoides

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4. Cercidiphyllum japonicum Katsura Tree
5. Cercidiphyllum japonicum 'Rotfuchs' Red Fox Katsura
6. Cercis canadensis Eastern Redbud
7. Cercis canadensis 'Forest Pansy' Forest Pansy Redbud

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8. Fraxinus pennsylvanica 'Summit' Summit Ash

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9. Notholithocarpus densiflorus Tanoak

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10. Prunus serrulata Kwanzan Cherry

3. Green color-coded rows:

- a. Does the Council agree to keep the 54 trees that the organizations agree upon?
- b. Is additional information needed for any tree?
- c. Are there any modifications the Council wishes to make (planter width, etc.)

Page 1

1. Acer griseum Paperbark Maple
2. Acer griseum 'JFS-KW8AGRI' Fireburst Paperbark Maple

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3. Carpinus caroliniana
4. Cornus kousa x nuttallii 'Kn308' Venus Dogwood
5. Lagerstroemia indica Crapemyrtle (many varieties)
6. Maackia amurensis Amur Maackia
7. Styax japonicus Japanese Snowbell
8. Syringa pekinensis 'DTR-124' Summer Charm Tree Lilac

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9. Zelkova serrata 'JFS-KW1' City Sprite Zelkova
10. Zelkova serrata 'Schmidtlow' Wireless Zelkova
11. Acer campestre Hedge Maple
12. Acer grandidentatum 'Mesa Glow' Mesa Glow Bigtooth Maple
13. Acer grandidentatum 'Rocky Mt Glow' Rocky Mt Glow Bigtooth Maple
14. Acer grandidentatum x saccharum 'Hipzam'
15. Acer saccharum 'Barrett Cole' Apollo Maple

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16. Aesculus x carnea Red Horse Chestnut
17. Carpinus betulus 'Frans Fontaine' Columnar European Hornbeam
18. Carpinus betulus 'JFS-KW1CB' Emerald Avenue European Hornbeam
19. Cornus kousa x nuttallii 'KN4-43' Starlight Dogwood

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20. Cupressus sempervirens Italian Cypress
21. Ginkgo biloba 'Autumn Gold' Autumn Gold Ginkgo
22. Ginkgo biloba 'JFS-UGA2' Golden Colonnade Ginkgo
23. Ginkgo biloba 'Princeton Sentry' Princeton Sentry Ginkgo
24. Koelreuteria paniculata Goldenrain Tree
25. Koelreuteria paniculata 'JFS-Sunleaf' Summerburst Goldenrain Tree

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26. Nyssa sylvatica Tupelo
27. Nyssa sylvatica 'JFS-red' Firestarter Tupelo
28. Nyssa sylvatica 'Wildfire' Wildfire Tupelo
29. Nyssa sylvatica 'Tupelo Tower' Tupelo Tower Blackgum
30. Ostrya virginiana Hophornbeam
31. Ostrya virginiana 'JFS-KW5' Autumn Treasure Hophornbeam
32. Parrotia persica Persian Parrotia
33. Parrotia persica 'Vanessa' Vanessa Parrotia

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34. Parrotia persica 'Persian Spire' Persian Spire Parrotia

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35. Quercus bicolor 'Bonnie and Mike' Beacon Oak
36. Quercus hypoleucoides Silverleaf Oak

37. Quercus myrsinifolia Bambooleaf Oak
38. Quercus robur x Q. alba 'Crimschmidt' Crimson Spire Oak
39. Quercus robur x Q. alba 'JFS-KW1QX' Streetspire Oak
40. Quercus robur x Q. alba 'JFS-KW2QX' Skinny Genes Oak

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41. Styrax obassia Fragrant Snowbell
42. Taxodium distichum 'Mickelson' Shawnee Brave Bald Cypress
43. Ulmus 'Frontier' Frontier Elm
44. Ulmus propinqua 'JFS Bieberich' Emerald Sunshine Elm
45. Umbellularia californica Oregon Myrtle
46. Zelkova serrata 'Village Green' Village green Zelkova
47. Metasequoia glyptostroboides Dawn Redwood
48. Quercus frainetto 'Schmidt' Forest Green Oak
49. Quercus coccinea Scarlet Oak
50. Quercus macrocarpa 'JFS-KW3' Urban Pinnade Oak

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51. Taxodium distichum Bald Cypress
52. Ulmus 'Frontier' Frontier Elm
53. Ulmus americana 'Jefferson' Jefferson Elm
54. Ulmus parvifolia 'Allee' Allee Lacebark Elm

4. Yellow color-coded rows:

- a. Council discussion on whether to keep individual trees that have cautionary concerns. agree
- b. Is additional information needed for any tree?
- c. Are there any modifications the Council wishes to make (planter width, etc.)

Page 1

1. Acer circinatum 'HS12' Three Cheers Vine Maple
2. Acer circinatum 'Pacific Fire' Pacific Fire Vine Maple
3. Acer palmatum 'Bloodgood' Bloodgood Maple
4. Amelanchier laevis 'JFS-Arb' Spring Flurry Serviceberry
5. Amelanchier x grandiflora 'Autumn Brilliance'
6. Amelanchier x grandiflora 'Princess Diana'

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7. Amelanchier x grandiflora 'Robin Hill' Robin Hill Serviceberry

8. Chionanthus retusus 'Tokyo Tower' Tokyo Tower Chinese Fringetree
9. Magnolia acuminata 'Elizabeth' Elizabeth Magnolia
10. Magnolia liliflora x sprengeri Galaxy magnolia
11. Magnolia 'Vulcan' Vulcan Magnolia
12. Sorbus americana 'Dwarf Crown' Red Cascade Mountain Ash

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13. Tilia cordata 'Halka' Summer Sprite Linden
14. Acer rubrum 'October Glory' October Glory red Maple
15. Acer rubrum 'Armstrong' Armstrong Red Maple
16. Acer saccharum 'Green Mountain' Green Mountain Sugar Maple
17. Acer triflorum
18. Aesculus californica California Buckeye

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19. Cupressus nootkatensis "Green Arrow' Green Arrow Alaskan Cedar
20. Cornus nuttallii 'Colrigo Giant'
21. Cornus 'Eddie's White Wonder' Eddie's White Wonder Dogwood
(Cornus florida and nuttalli hybrid)
22. Cornus Mas 'JFS PN4Legacy' Saffron Sentinel Cornelian Cherry'

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23. Davidia involucrata Dove Tree
24. Fagus sylvatica 'Fastigiata' Fastigate Beech
25. Fagus sylvatica 'Roseomarginata' Tricolor European Beech
26. Liriodendron tulipifera 'JFS-Oz' Emerald City Tulip Tree
27. Liriodendron tulipifera 'Fastigiata' Columnar Tulip Tree

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28. Oxydendrum arboreum Sourwood

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29. Picea omorika 'Pendula Bruns' Weeping Siberian Spruce
30. Pinus flexilis 'Vanderwolf's Pyramid'
31. Pinus strobus 'Fastigiata' Fastigate White Pine
32. Prunus sargentii
33. Prunus sargentii 'JFS-KW58' Pink Flair Cherry
34. Prunus 'Snowgoose' Snowgoose Cherry

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35. Prunus subhirtella 'Autumnalis Rosea' Autumn Rose Higan Cherry
36. Prunus x yedoensis Yoshino Cherry

37. Sorbus aucuparia 'Michred' Cardinal Royal Mountain Ash

38. Stewartia monadelphica Tall Stewartia

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39. Stewartia pseudocamellia Japanese Stewartia

40. Tilia cordata 'De Groot' Summer Sprite Linden

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41. Quercus rubra Red Oak

Alternatives


1. Keep current Carlton Street Tree List

Exhibits

1. Street Tree List inclusive of PGE & ODF feedback
2. Current Carlton Street Tree List
3. Planning Commission street tree list recommendation
4. ODF input on trees listed on the planning commission recommended street tree list
5. PGE Street Tree List and Street Tree Materials

Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Spread (ft) - per PGE	Canopy Width (ft)	Canopy Area (sq. ft) - per PGE	Soil Type - per PGE	Tree form		Fall Color	Comments- Planning Commission	Comments- PGE	Comments- ODF
SMALL TREES													
Acer buergerianum Trident Maple	4	No	30	20	25	314	all	rounded	n/a	yellow	Tolerant of many conditions; year round interest	thin barked maples easily get sunscald and/or drought stressed - REMOVED FROM PGE APPROVED LIST	ODF Approved of tree on the list
Acer circinatum 'HS12' Three Cheers Vine Maple	4	yes	10 to 15	25	6-8	491	well drained	upright compact	yes	yellow	Graceful flame form, excellent fall color Native	native to Portland metropolitan region, requires some shade	Our team wonders about the drought tolerance of vine maple and susceptibility to sunscald. We also wonder about the fact that vine maples tend to be multi-stemmed and take up a lot of space at head height.
Acer circinatum 'Pacific Fire' Pacific Fire Vine Maple	4	yes	18	25	15	491	well drained	upright	yes	Red orange	Bright red twigs in late autumn and winter. Needs dappled shade Native	native to Portland metropolitan region, requires some shade	Our team wonders about the drought tolerance of vine maple and susceptibility to sunscald. We also wonder about the fact that vine maples tend to be multi-stemmed and take up a lot of space at head height.
Acer griseum Paperbark Maple	4	yes*	25	25	20	491	any	rounded	n/a	Red orange	Attractive peeling coppery bark	attractive peeling bark. Noted by PGE as an Approved for planting beneath power lines	N/A
Acer griseum 'JFS-KW8AGRI' Fireburst Paperbark Maple	4	yes*	25	25	18	491	any	upright pyramidal	n/a	Red orange	Attractive peeling bark, selected for street tree form and Fall color.	attractive peeling bark. Noted by PGE as an Approved for planting beneath power lines	N/A
Acer palmatum 'Bloodgood' Bloodgood Maple	4	yes	20	20	20	491	any	rounded	n/a	red	Burgundy summer foliage, red fall color	do not plant dwarf varieties	Concerns about performance as a street tree (drought tolerance, multi-stemmed, etc.) - ODF CAUTIONS AS STREET TREE
Acer tataricum Tatarian Maple	4	yes	25	20	15	314	all	oval	n/a	Yellow red	Compact crown; tolerant of urban stresses	thin barked maples easily get sunscald and/or drought stressed - REMOVED FROM PGE APPROVED LIST	ODF Approved of tree on the list
Acer truncatum x A. platanoides Crimson Sunset Maple	4	no	35	20	25	not listed	not listed	oval	n/a	Reddish burgundy	Purple foliage; upright form; good summer heat tolerance	thin barked maples easily get sunscald and/or drought stressed - REMOVED FROM PGE APPROVED LIST	ODF Approved of tree on the list
Amelanchier laevis 'JFS-Arb' Spring Flurry Serviceberry	4	yes*	25	15	20	177	well drained	upright pyramidal	yes	orange	Showy spring flowers, good form	edible berries. Noted by PGE as an Approved for planting beneath power lines	Concerns about serviceberry's susceptibility to foliar rust.
Amelanchier x grandiflora 'Autumn Brilliance' Autumn Brilliance Serviceberry	4	yes	20	25	15	177	well drained	rounded	yes	Orange red	Showy spring flowers, fall color	branches resist breakage	Concerns about serviceberry's susceptibility to foliar rust.
Amelanchier x grandiflora 'Princess Diana' Princess Diana Serviceberry	4	yes	20	25	15	177	well drained	rounded	yes	Orange red	Showy spring flowers, pinkish red fall color	branches resist breakage	Concerns about serviceberry's susceptibility to foliar rust.


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SMALL TREES													
Amelanchier x grandiflora 'Robin Hill' Robin Hill Serviceberry	4	yes	20	25	15	177	well drained	vase shaped	yes	good	Showy spring flowers, more upright than other varieties	branches resist breakage	Concerns about serviceberry's susceptibility to foliar rust.
Carpinus caroliniana American Hornbeam	4	no	30	25	20	314	any	rounded	n/a	Reds orange	Excellent fall color, tolerant of many soil conditions	requires moderate amount of water	N/A
Chionanthus retusus 'Tokyo Tower' Tokyo Tower Chinese Fringetree	4	yes	20	-	10	-	-	columnar	yes	n/a	Showy flower; fruit attracts birds; low maintenance but does not tolerate prolonged dry conditions; tolerant of air pollution	not on list	Fringetree are potentially susceptible to Emerald Ash Borer. Best to avoid.
Cornus kousa x nuttallii 'Kn308' Venus Dogwood	4	yes*	20	20	25	491	any	vase shaped	yes	reds	Very large white flowers; vigorous growth; needs even moisture	prefers some shade. Noted by PGE as an Approved for planting beneath power lines	Potential concerns about sun exposure and drought tolerance
Lagerstroemia indica Crapemyrtle (many varieties)	4	yes	15-25	20	10-15	314	well drained	rounded	yes	reds	Choose one of many varieties for size and flower color; beautiful peeling bark; can be multistem; lovely small tree	choose variety adapted to Portland region	N/A
Maackia amurensis Amur Maackia	4	yes	25	25+	20	491	well drained	broad, rounded	yes	Sometimes yellow	Fragrant spikes of white flowers in spring; dark olive green leaves; attractive coppery brown exfoliating bark	rounded form. PGE indicates it is NOT suitable under powerlines	Potential concerns with overhead powerlines
Magnolia acuminata 'Elizabeth' Elizabeth Magnolia	4	yes	25	-	15	-	-	pyramidal	yes	yellow	Yellow flower	not on list. 3 magnolia varieties are on PGE list but not this variety	Our team has concerns about magnolias in narrow planting strips. They are notorious sidewalk busters...
Magnolia liliflora x sprengeri Galaxy magnolia	4	yes	30	-	15	-	-	pyramidal	yes	yellow	Strong central leader	not on list. 3 magnolia varieties are on PGE list but not this variety	Our team has concerns about magnolias in narrow planting strips. They are notorious sidewalk busters...
Magnolia 'Vulcan' Vulcan Magnolia	4	no	30	-	10	-	-	round	yes	yellow	Central leader; earlier blooms than other magnolias; deep rose flowers	not on list. 3 magnolia varieties are on PGE list but not this variety	Our team has concerns about magnolias in narrow planting strips. They are notorious sidewalk busters...
Sorbus americana 'Dwarf Crown' Red Cascade Mountain Ash	4	yes	18	-	8	-	-	compact oval	yes	Yellow orange	Small orange red clusters of fruit; white spring flower clusters; lustrous summer foliage; ideal for small spaces	not on list	Concern about the performance/short life span of mountain ash as a street tree
Styrax japonicus Japanese Snowbell	4	yes*	20	25	20	491	well drained	rounded	yes	yellow	Regular water until established. Abundant fragrant bell shaped flowers	mostly trouble free. Noted by PGE as an Approved for planting beneath power lines	N/A
Syringa pekinensis 'DTR-124' Summer Charm Tree Lilac	4	yes	20	-	25	-	-	upright spreading	yes	yellow	Dark green glossy foliage; creamy white panicles of flowers	Not on list. Japanese lilac is, but not this variety. PGE indicates that Japanese lilac is NOT suitable under power lines	N/A

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SMALL TREES													
Tilia cordata 'Halka' Summer Sprite Linden	4	yes	20	-	15	-	-	rounded	n/a	yellow	Yellow fall color. Suited to confined city spaces	not on list	Tilia cordata can be susceptible to aphids and basal resprouting. Our team is more partial to silver linden (Tilia tomentosa) as a street tree
Zelkova serrata 'JFS-KW1' City Sprite Zelkova	4	yes	25	-	20	-	-	upright pyramidal	n/a	yellow	compact	Not on list	N/A
Zelkova serrata 'Schmidtlow' Wireless Zelkova	4	yes	25	-	35	-	-	wide rounded	n/a	yellow	Ideal shape for under utility lines	Not on list	N/A
MEDIUM TREES													
Acer campestre Hedge Maple	5	No	35	-	35	-	-	rounded	n/a	yellow	Tolerant of dry soil, compaction. Adaptable	Not on list. Other varieties are on PGE list but not this variety	N/A
Acer rubrum 'October Glory' October Glory red Maple	5	no	40	-	35	-	-	broadly oval	n/a	Orange red	Colors later in the fall	Not on list. Other varieties are on PGE list but not this variety	Red maples can have aggressive surface roots and can be susceptible to drought stress
Acer rubrum 'Armstrong' Armstrong Red Maple	5	no	45	-	15	-	-	upright tightly fastigiate	n/a	red	Golden orange fall color	Not on list. Other varieties are on PGE list but not this variety	Red maples can have aggressive surface roots and can be susceptible to drought stress
Acer grandidentatum 'Mesa Glow' Mesa Glow Bigtooth Maple	5	no	35	-	20	-	-	upright oval	n/a	Orange red yellow	Drought tolerant and adaptable. Glossy green leaves. Outstanding orange fall color.	Not on list. Other varieties are on PGE list but not this variety	N/A
Acer grandidentatum 'Rocky Mt Glow' Rocky Mt Glow Bigtooth Maple	5	yes	25	-	15	-	-	oval	n/a	Orange red yellow	Slow growing, intense fall color	Not on list. Other varieties are on PGE list but not this variety	N/A
Acer grandidentatum x saccharum 'Hipzam' Highland Park Maple	5	no	35	-	22	-	-	tightly upright pyramidal	n/a	Bright red	Faster growing and more upright than typical bigtooth maple yet smaller and more heat resistant than sugar maple. Dark green leaves.	Not on list. Other varieties are on PGE list but not this variety	N/A
Acer saccharum 'Green Mountain' Green Mountain Sugar Maple	5	no	50	-	40	-	-	broadly oval	n/a	Red orange	Reliable fall color	Not on list. Other varieties are on PGE list but not this variety	Sugar maples can struggle with drought
Acer saccharum 'Barrett Cole' Apollo Maple	5	no	30	-	10	-	-	narrow columnar	n/a	Yellow, orange to red	Narrow, dense, compact branching; Withstands summer heat; great fall color	Not on list. Other varieties are on PGE list but not this variety	N/A
Acer triflorum Three Flowered Maple	5	no	30	-	30	-	-	rounded	n/a	Bright orange red	Lovely exfoliating bark; great fall color; needs reliable moisture	Not on list. Other varieties are on PGE list but not this variety	We wonder about vulnerability to drought
Aesculus californica California Buckeye	5	no	35	-	35	-	-	rounded	yes	yellow	Fragrant white/pink flowers	Not on list	More of a shrub than a tree, but lovely flowers and regionally native

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MEDIUM TREES													
Aesculus x carnea Red Horse Chestnut	5	no	30	-	40	-	-	rounded	yes	no	Abundant red flowers in spring. Very broad.	Not on list	We wonder about narrow planting strips. May require 6" min. planter strip as a street tree
Carpinus betulus 'Frans Fontaine' Columnar European Hornbeam	5	no	35	-	15	-	-	columnar	n/a	yellow	Retains columnar form into maturity	Not on list. Other varieties are on PGE list but not this variety	N/A
Carpinus betulus 'JFS-KW1CB' Emerald Avenue European Hornbeam	5	no	40	-	28	-	-	broadly pyramidal	n/a	yellow	Vigorous and heat tolerant. Stays deep green in summer heat.	Not on list. Other varieties are on PGE list but not this variety	N/A
Cercidiphyllum japonicum Katsura Tree	5	no	40	-	40	-	-	broadly pyramidal	n/a	Golden yellow	Beautiful tree. Casts filtered shade. Lovely form. Needs consistent irrigation	Not on list	Katsura trees are lovely but really struggle as street trees.
Cercidiphyllum japonicum 'Rotfuchs' Red Fox Katsura	5	no	30	-	16	-	-	upright oval	n/a	Orange bronze	Compact narrow shape. Deep purple spring foliage.	Not on list	Katsura trees are lovely but really struggle as street trees.
Cercis canadensis Eastern Redbud	5	no	30	25	30	491	any	broadly oval	yes	yellow	Showy flowers on bare branches in early spring. Tolerant of clay soil	this is a delicate tree not resistant to climate change - REMOVED FROM PGE APPROVED LIST	Redbud struggle as street trees in the southern Willamette Valley (we call them "deadbuds"). Lovely flowers but really poor performance
Cupressus nootkatensis "Green Arrow" Green Arrow Alaskan Cedar	5	no	35	-	5	-	-	very narrow weeping	no	n/a	Extremely narrow weeping growth habit, branches hang close to the trunk; full sun, drought tolerant when established; great for tight spaces	not on list	We're not familiar with this cultivar and how it would fare as a street tree
Cercis canadensis 'Forest Pansy' Forest Pansy Redbud	5	yes	20	-	25	-	-	broadly oval	yes	Yellow orange	Deep purple foliage paling to bronze green foliage. Magenta/rose flowers. Tolerant of clay soil	this is a delicate tree not resistant to climate change - REMOVED FROM PGE APPROVED LIST	Redbud struggle as street trees in the southern Willamette Valley (we call them "deadbuds"). Lovely flowers but really poor performance
Cornus nuttallii 'Colrigo Giant'	5	no	40	-	20	-	-	upright pyramidal		red	Native selected in Columbia River Gorge. Plant in well drained soil.	Not on list. Other varieties are on PGE list but not this variety	Eastern and native dogwoods can be highly susceptible to anthracnose and drought stress, sunscald. Plant with caution.
Cornus 'Eddie's White Wonder' Eddie's White Wonder Dogwood (Cornus florida and nuttallii hybrid)	5	yes	25	-	20	-	-	upright pyramidal	yes	red	Large, abundant white flower bracts. More adaptable than parent plant Cornus nuttallii.	this is a delicate tree not resistant to climate change. Cornus florida removed from PGE list	Eastern and native dogwoods can be highly susceptible to anthracnose and drought stress, sunscald. Plant with caution.
Cornus kousa x nuttallii 'KN4-43' Starlight Dogwood	5	no	30	-	20	-	-	upright oval	yes	red	Anthracnose and powdery mildew resistant. Abundant creamy white flower bracts.	Cornus Kousa prefers some shade. PGE has Cornus Kousa as an approved Street Tree	Cornus Kousa is resistant to anthracnose and can often perform well as a street tree
Cornus Mas 'JFS PN4Legacy' Saffron Sentinel Cornelian Cherry'	5	yes	22	-	12	-	-	columnar	Yes	Deep crimson	Bright yellow flowers followed dark green leaves then bright red fruit. Fruit attractive to birds. Dark brown bark exfoliates (peels) with age.	prefers some shade	Cornus mas can be low branching


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MEDIUM TREES													
Cupressus sempervirens Italian Cypress	5	No	20	-	2	-	-	very tightly columnar	n/a	evergreen	Strongly fastigate, fast growing, extremely drought tolerant. Grows in dry, poor soils, full sun. can be topped and new leader easily established	Not on list. Other varieties are on PGE list but not this variety	N/A
Davidia involucrata Dove Tree	5	no	40	-	30	-	-	pyramidal	yes	yellow	Very large white flower bracts. Also called "handkerchief tree" for its large flower bracts.	not on list	Can perform well as a park tree, not sure about it's performance as a street tree
Fagus sylvatica 'Fastigiata' Fastigate Beech	5	no	45	-	15	-	-	fastigate	n/a	Tan, brown	Attractive smooth gray bark. Dark green foliage	not on list	Beech can be temperamental with summer drought
Fagus sylvatica 'Roseomarginata' Tricolor European Beech	5	no	30	-	25	-	-	oval	n/a	Tan, brown	Margins of its purple-bronze leaves are irregularly colored with splashes of rose, pink and cream	not on list	Beech can be temperamental with summer drought
Fraxinus pennsylvanica 'Summit' Summit Ash	4	no	45	-	25	-	-	pyramidal	n/a	Intense golden-yellow	Full sun; moist well drained soils; does not tolerate extended dry conditions; grows quickly for shade	Not on PGE List. S. Turrell recommended removal after PC review.	Due to Emerald Ash Borer, we highly recommend removing all ash from recommended lists
Ginkgo biloba 'Autumn Gold' Autumn Gold Ginkgo	5	no	45	-	35	-	-	broadly pyramidal	n/a	Golden yellow	Fruitless. Lovely bright gold fall color.	not on list	Ginkgos can get large. We wonder about sidewalk impacts in a 5 foot planter strip
Ginkgo biloba 'JFS-UGA2' Golden Colonnade Ginkgo	5	no	45	-	25	-	-	narrow oval	n/a	Bright yellow	Ideal for narrow street use. seedless	not on list	Ginkgos can get large. We wonder about sidewalk impacts in a 5 foot planter strip
Ginkgo biloba 'Princeton Sentry' Princeton Sentry Ginkgo	5	no	40	-	15	-	-	narrowly pyramidal	n/a	Bright yellow	Stiffly upright. Seedless.	not on list	Ginkgos can get large. We wonder about sidewalk impacts in a 5 foot planter strip
Koelreuteria paniculata Goldenrain Tree	5	No	30	-	30	-	-	rounded	yes	yellow	Clusters of yellow flowers. Pinnately compound leaves cast filtered shade.	widely used in California	N/A
Koelreuteria paniculata 'JFS-Sunleaf' Summerburst Goldenrain Tree	5	no	30	-	30	-	-	rounded	yes	yellow	Glossy dark green pinnately compound leaves. Holds up in summer heat. Large clusters of bright yellow flowers.	widely used in California	N/A
Liriodendron tulipifera 'JFS-Oz' Emerald City Tulip Tree	5	no	55	-	25	-	-	upright oval	yes	Bright yellow	Straighter, more upright than species, slightly compact.	not on list	Tulip poplars can be susceptible to aphids/honeydew and impact sidewalks, but worth planting
Liriodendron tulipifera 'Fastigiata' Columnar Tulip Tree	5	no	60	-	20	-	-	pyramidal	yes	yellow	Fast growing. Drought tolerant when established. Tolerate periodic standing water.	not on list	Tulip poplars can be susceptible to aphids/honeydew and impact sidewalks, but worth planting

Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Spread (ft) - per PGE	Canopy Width (ft)	Canopy Area (sq. ft) - per PGE	Soil Type - per PGE	Tree form		Fall Color	Comments- Planning Commission	Comments- PGE	Comments- ODF
MEDIUM TREES													
Notholithocarpus densiflorus Tanoak	5	no	40	-	30	-	-	variable form. Broadly rounded to pyramidal	yes	evergreen	Flowering with white catkins in spring followed by acorn like fruit. Oregon native, drought tolerant when established	not on list	Tanoaks are very difficult to grow outside of Southern OR and really struggle. They also have small irritating hairs on their leaves. We'd discourage tanoak on the list.
Nyssa sylvatica Tupelo	5	no	45	-	25	-	-	pyramidal to rounded	n/a	Excellent red	Can tolerate clay soils, standing water or some drought. Although insignificant, tiny flowers very attractive to bees and pollinators.	not on list	N/A
Nyssa sylvatica 'JFS-red' Firestarter Tupelo	5	No	35	-	18	-	-	narrow oval	n/a	Bright red	Upsweeping branches, glossy green leaves, bright red fall color that comes earlier than other species	not on list	N/A
Nyssa sylvatica 'Wildfire' Wildfire Tupelo	5	no	50	-	30	-	-	pyramidal to rounded	n/a	scarlet	New foliage emerges red then deepens to glossy green, scarlet red fall color	not on list	N/A
Nyssa sylvatica 'Tupelo Tower' Tupelo Tower Blackgum	5	no	40	-	15	-	-	columnar	n/a	Scarlet red	Columnar habit makes it a good choice for narrower sites.	not on list	N/A
Ostrya virginiana Hophornbeam	5	no	40	-	25	-	-	broadly pyramidal	n/a	yellow	Hoplike fruit, slow growing, tolerates urban stress. May hold brown fall leaves throughout winter	not on list	N/A
Ostrya virginiana 'JFS-KW5' Autumn Treasure Hophornbeam	5	no	40	-	20	-	-	upright pyramidal to oval	n/a	Golden yellow	Doesn't hold brown fall leaves through winter. Clean leaf drop after coloring yellow. Upright narrow form.	not on list	N/A
Oxydendrum arboreum Sourwood	5	no	50	-	25	-	-	oblong crown	yes	red	Lovely pannicles of white flowers in June; full sun to part shade; moderate water	not on list	Sourwood trees are lovely but tend to struggle as streettrees.
Parrotia persica Persian Parrotia	5	no	30	25+	20	314	well drained	upright oval	n/a	Yellow, orange, bright red	Bark exfoliating, producing a mosaic of green, white and brown. Excellent fall color. Flowers in early spring on bare branches like witch hazel.	native range is Iran, Turkey, and Georgia	N/A
Parrotia persica 'Vanessa' Vanessa Parrotia	5	no	40	25+	20	314	well drained	upright tight vase	n/a	Yellow, orange, bright red	Tighter and denser form. Excellent fall color	native range is Iran, Turkey, and Georgia	N/A

Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Spread (ft) - per PGE	Canopy Width (ft)	Canopy Area (sq. ft) - per PGE	Soil Type - per PGE	Tree form		Fall Color	Comments- Planning Commission	Comments- PGE	Comments- ODF
MEDIUM TREES													
Parrotia persica 'Persian Spire' Persian Spire Parrotia	5	no	25	25+	10	314	well drained	upright columnar	n/a	Yellow, orange, bright red	foliage emerges purple and matures to green with purple tinted margins. Power line approved in Seattle	native range is Iran, Turkey, and Georgia	N/A
Picea omorika 'Pendula Bruns' Weeping Siberian Spruce	5'	yes	20	-	4-5	-	-	strictly narrow weeping	n/a	n/a	Beautiful, widely available narrow weeping evergreen. Silvery blue needles. Safe under wires.	not on list	Not familiar with this cultivar - no input here
Pinus flexilis 'Vanderwolf's Pyramid'	5	no	35	-	15	-	-	upright columnar	n/a	n/a	Potential to grow vigorously in ideal conditions	not on list	Not familiar with this cultivar or sure how it would fare as a street tree
Pinus strobus 'Fastigiata' Fastigate White Pine	5	no	35	-	8	-	-	tightly columnar	n/a	evergreen	Lovely soft silvery green needles.	not on list	White pines can struggle with summer drought
Prunus sargentii Sargent Flowering Cherry	5	no	30	-	30	-	-	rounded	yes	red	Pink flowers, attractive mahogany bark	variety not on list	We'd advise caution with cherries as street trees. They are notorious for sidewalk damage and several varieties have very low branching that is problematic for street and sidewalk clearance. That said, the flowers can be stunning in spring.
Prunus sargentii 'JFS-KW58' Pink Flair Cherry	5	yes	25	-	15	-	-	upright vase	yes	red	It avoids frost damage by flowering a week or two later than is typical of the species. Single pink flowers, attractive bark	variety not on list	We'd advise caution with cherries as street trees. They are notorious for sidewalk damage and several varieties have very low branching that is problematic for street and sidewalk clearance. That said, the flowers can be stunning in spring.
Prunus serrulata Kwanzan Cherry	5	yes	25	30	20	707	any	vase	yes	yellow	Short lived 20 to 25 years. Double pink flowers.	Susceptible to variety of diseases, not resistant to climate change. Removed from PGE list.	We'd advise caution with cherries as street trees. They are notorious for sidewalk damage and several varieties have very low branching that is problematic for street and sidewalk clearance. That said, the flowers can be stunning in spring.
Prunus 'Snowgoose' Snowgoose Cherry	5	yes	20	-	25	-	-	vase	yes	yellow	Flowers appear before the leaves, pure white, single. Tolerant of urban pollution and drought	variety not on list	We'd advise caution with cherries as street trees. They are notorious for sidewalk damage and several varieties have very low branching that is problematic for street and sidewalk clearance. That said, the flowers can be stunning in spring.

Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Spread (ft) - per PGE	Canopy Width (ft)	Canopy Area (sq. ft) - per PGE	Soil Type - per PGE	Tree form		Fall Color	Comments- Planning Commission	Comments- PGE	Comments- ODF
MEDIUM TREES													
Prunus subhirtella 'Autumnalis Rosea' Autumn Rose Higan Cherry	5	no	30	-	25	-	-	vase	yes	yellow	Double pink flowers, sporadic autumn bloom.	variety not on list	We'd advise caution with cherries as street trees. They are notorious for sidewalk damage and several varieties have very low branching that is problematic for street and sidewalk clearance. That said, the flowers can be stunning in spring.
Prunus x yedoensis Yoshino Cherry	5	no	40	25	30	707	any	vase	yes	yellow	Flowers appear before leaves in spring	attractive flowers	We'd advise caution with cherries as street trees. They are notorious for sidewalk damage and several varieties have very low branching that is problematic for street and sidewalk clearance. That said, the flowers can be stunning in spring.
Quercus bicolor 'Bonnie and Mike' Beacon Oak	5	no	40	-	15	-	-	tightly columnar	n/a	Nice yellow	Perfect densely columnar street tree with glossy deep green leaves. Corky bark	not on list	N/A
Quercus hypoleucoides Silverleaf Oak	5	no	30	-	30	-	-	rounded	no	n/a	Gray silver leaves, semi-evergreen; hot sites, little or no water	not on list	N/A
Quercus myrsinifolia Bambooleaf Oak	5'	yes	30	-	30	-	-	rounded	no	n/a	Silvery green broadleaf evergreen. Ice storm damage resistant. Silvery purplish new growth. Fast grower but safe under wires.	not on list	N/A
Quercus robur x Q. alba 'Crimschmidt' Crimson Spire Oak	5	no	45	-	15	-	-	columnar	No	Rusty red	Mildew resistant dark bluish green leaves; tightly fastigate. Brown fall leaves persist throughout winter.	not on list	N/A
Quercus robur x Q. alba 'JFS-KW1QX' Streetspire Oak	5	no	45	-	14	-	-	narrow columnar	no	Rusty red	Dark green leaves. Does not hold brown autumn leaves throughout winter. Wide crotch angle of branches make it resistant to storm damage	not on list	N/A
Quercus robur x Q. alba 'JFS-KW2QX' Skinny Genes Oak	5	no	45	-	10	-	-	narrow columnar	no	yellow	Mildew resistant dark green leaves. Tightly narrow.	not on list	N/A
Sorbus aucuparia 'Michred' Cardinal Royal Mountain Ash	5	no	35	-	20	-	-	upright narrow oval	yes	rust	Small brilliant red berries in fall; white clusters of flowers; symmetrical tidy habit	not on list	Mountain ash tend to be very short-lived and have performance issues
Stewartia monadelphica Tall Stewartia	5	no	30	25+	20	314	well drained	pyramidal	yes	Yellow, orange, red	White showy flowers in spring through early summer. Attractive peeling bark. Avoid hot dry sites, roots need to be shaded.	requires ample moisture when young	Stewartias are lovely trees but can be finicky (high mortality as street trees)

Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Spread (ft) - per PGE	Canopy Width (ft)	Canopy Area (sq. ft) - per PGE	Soil Type - per PGE	Tree form		Fall Color	Comments- Planning Commission	Comments- PGE	Comments- ODF
MEDIUM TREES													
Stewartia pseudocamellia Japanese Stewartia	5	no	30	25+	25	491	well drained	pyramidal	yes	Yellow, orange, red	Attractive spring through early summer flowers. Attractive peeling bark. Great fall color	requires ample moisture when young	Stewartias are lovely trees but can be finicky (high mortality as street trees)
Styrax obassia Fragrant Snowbell	5	no	30	25	20	314	well drained	upright rounded	yes	yellow	Racemes of fragrant white bells. Attractive to hummingbirds	fragrant flowers	N/A
Taxodium distichum 'Mickelson' Shawnee Brave Bald Cypress	5	no	50	-	20	-	-	pyramidal	n/a	cinnamon brown	Tolerates clay soils. Lovely deciduous conifer that is narrow and upright. Fine foliage.	not on list	N/A
Tilia cordata 'De Groot' Summer Sprite Linden	5	no	30	-	20	-	-	pyramidal	n/a	yellow	Insignificant flowers that are very attractive to pollinators. Compact form	not on list	Our team is more partial to silver linden (Tilia tomentosa) as a street tree
Ulmus 'Frontier' Frontier Elm	5	no	40	-	30	-	-	vase to oval	n/a	burgundy	Redpurple to burgundy fall color. Tolerance to Dutch Elm Disease and phloem necrosis	not on list	N/A
Ulmus propinqua 'JFS Bieberich' Emerald Sunshine Elm	5	no	35	-	25	-	-	vase	n/a	yellow	Resistant to Elm Leaf Beetle and Japanese Beetle; tolerance to Dutch Elm disease and phloem necrosis; tolerant of heat and drought; leaves emerge bronze then turn dark green.	not on list	N/A
Umbellularia californica Oregon Myrtle	5	no	55	-	40	-	-	rounded	yes	evergreen	White flowers in spring; Native to Oregon; evergreen; quite drought tolerant when established; leaves have spicy fragrance	not on list	N/A
Zelkova serrata 'Village Green' Village green Zelkova	5	no	50	-	40	-	-	rounded	n/a	yellow	High tolerance to wind, pollution, drought and compacted soils.	not on list	N/A
LARGE TREES													
Metasequoia glyptostroboides Dawn Redwood	6'	no	70	-	20	-	-	pyramidal	n/a	Cinnamon brown/gold	Beautiful vigorous deciduous conifer with feathery foliage	not on list	N/A
Quercus frainetto 'Schmidt' Forest Green Oak	5	No	50	-	30	-	-	upright oval	n/a	Brown yellow	Upright growing; vigorous; strong central leader; dark green leaves; drought resistant	not on list	N/A
Quercus coccinea Scarlet Oak	6	no	50	-	40	-	-	open broadly oval	n/a	Scarlet red	Glossy dark green leaves hold up in summer heat	not on list	N/A
Quercus macrocarpa 'JFS-KW3' Urban Pinnade Oak	5	no	55	-	25	-	-	narrow pyramidal to oval	n/a	yellow	Resistant to mildew and anthracnose; very small acorns	not on list	N/A

Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Spread (ft) - per PGE	Canopy Width (ft)	Canopy Area (sq. ft) - per PGE	Soil Type - per PGE	Tree form		Fall Color	Comments- Planning Commission	Comments- PGE	Comments- ODF
LARGE TREES													
Quercus rubra Red Oak	5	no	50	-	45	-	-	rounded	n/a	red	Fast growing;broad headed;can grow in tough conditions like compacted soil,poor drainage and drought.	not on list	Can get really big and cause sidewalk damage in narrow planting strips. Can drop acorns. Plant with caution. We're seeing drought stress in established street trees in Eugene. Great tree in the right spot.
Taxodium distichum Bald Cypress	6	no	60	-	25	-	-	pyramidal	n/a	Cinnamon brown	Tolerant of clay soil. Lovely spring bright green new growth. Fine foliage lends bright shade.	not on list	N/A
Ulmus 'Frontier' Frontier Elm	6	no	40	-	30	-	-	vase to oval	n/a	burgundy	Unique to elms for its burgundy fall color; tolerance to Dutch elm disease and phloem necrosis;	not on list	N/A
Ulmus americana 'Jefferson' Jefferson Elm	8	no	70	-	50	-	-	vase	n/a	yellow	Arching limbs;disease tolerance to Dutch elm disease and phloem necrosis	not on list	N/A
Ulmus parvifolia 'Allee' Allee Lacebark Elm	6	no	50	-	35	-	-	upright vase	n/a	yellow red	Bark is a mosaic of orange, tan and gray; glossy green leaves; mature specimens proven resistant to ice storm damage.	not on list	Good tree - can require a lot of pruning as a street tree.

PROHIBITED TREES	
Betula pendula European Birch	No drought tolerance; ice damage; weakened by bronze birch borer
Betula jacquemontii Jacquemontii Birch	No drought tolerance; ice damage; weakened by bronze birch borer
Prunus 'Newport', Thundercloud', Mt St. Helens'	Defoliates from leafspot, ugly habit;brief spring bloom doesn't compensate for poor form, foliage and low twiggy branching
Crataegus laevigata 'Paul's Scarlet' Paul's Scarlet Hawthorn	Ugly habit; drop limbs; defoliates in summer.
Gleditsia Honeylocust	Becomes diseased and defoliates; drops branches; not suited to this climate
Acer platanoides Norway Maple	Considered invasive. Allow by permission in limited quantities and circumstances.
Pyrus calleryana	Invasive species and overused
ODF recommends adding Ailanthus altissima (tree of heaven) and discouraging new plantings of any ash trees.	

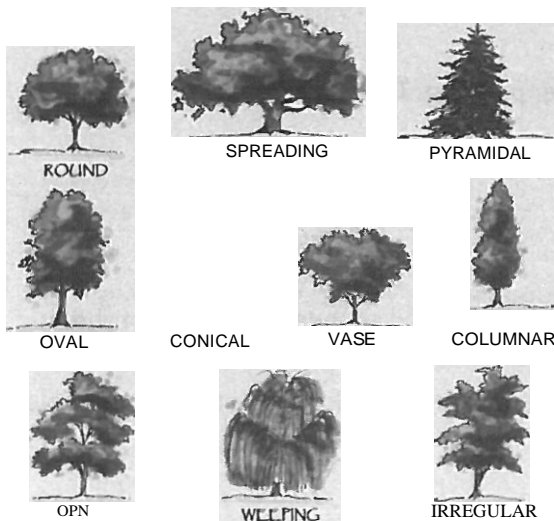
Current Carlton Street Tree List

STREET TREES PICKING AND SITING YOUR STREET TREE

Picking Your Tree

You will need to pick a tree from the approved street tree list for the size of the planting space you have. You will also need to consider if there are overhead power or other utility lines.

TREE FORMS



There are a number of other issues you should consider. Individuals have personal preferences and you will be living with these trees for many years. Try to pick a tree you love. These issues include:

- Height
- Spread
- Form (see illustration)
- Color (spring, summer, and fall)
- If the tree flowers or fruits
- Bark and leaf texture
- Attractiveness to birds or butterflies

It is also good to remember that tree roots usually spread about as far as their canopy. Picking a tree with a small canopy makes sense when you have smaller building setback or a smaller place to plant.

Siting Your Tree

Call Before You Dig. Utility lines may be buried in the desired tree planting area. For your safety and the safety of others, be sure to check for underground utilities. Call **811** at least 48 hours in advanced before digging. Contact Portland General Electric for information about tree removal and trimming around power lines.

A larger diameter planting hole promotes better tree health by aerating the soil. The planting hole should be about two to three times the size of the root ball. When locating the planting site for your tree, use the following guidelines. Measurements should be taken from the center of the trunk.

- 20-feet from the curb line of an intersection street
- 7-feet from alleys and driveways
- 5-feet from fire hydrants
- 10-feet from directional traffic signs
- 20-feet from stop or yield signs
- 2-feet from adjoining property lines
- 25-feet from street lights
- 20-feet from adjacent trees

Planting Your Tree

When to Plant - While it is okay to plant a tree any time of the year, the best time to plant a tree is when the tree is dormant during the winter months.

Do Not Compact Soil – Be sure not to pack the soil too tight when planting the tree. Compact soil makes it difficult for roots to grow outward and downward, which can result in raised sidewalks and an unhealthy tree.

Mulch - To hold in moisture and discourage the growth of competing weeds, spread mulch around the base of the tree. The mulch should be about 4-inches deep and kept about 6-inches from the trunk of the tree. Mulch could include grass clippings, compost or bark dust.

Stakes – The tree should be staked for at least the first year after planting. The stakes should be tied loose enough that the tree can sway 2-inches from side to side.

Caring For Your Tree

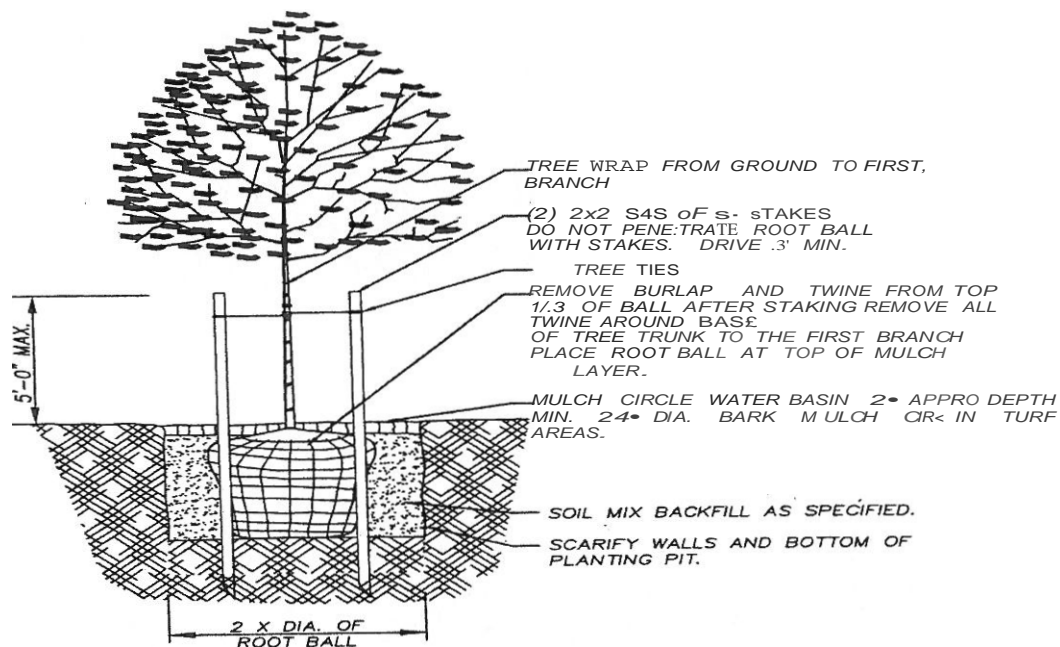
Trees Need Water- Your new tree will need 5 - 10 gallons of water once or twice a week for the first three years after planting. Watering your tree slowly and evenly will promote deep root growth; over watering your tree will promote shallow root growth which can result in raised walkways. As gallon bucket with small holes in the bottom is an excellent method for watering your plant slowly.

Weed Around Your Tree - Other plants around the tree are competing for water. Be sure to remove competing plants several feet around the base of the tree.

Bark Damage - Take care when mowing around the tree, bark damage can weaken the tree and make it susceptible to disease.

Remove Dead Branches and Suckers – Remove all dead branches in the tree canopy and suckers located at the base of the tree. This will allow the tree to focus its energy where it is needed and desired.

Planting in Planter Strips or Behind the Sidewalk



Approved Street Tree List


2 – 3 Foot Planting Area


Common Name	Botanical Name	Mature Height	Canopy Spread	Under Power Lines	Form	Fall Color	Fruit/ Flower	Birds/ Butterflies
Japanese Tree Lilac	Syringa reticulata	20	15	X	Pyramidal		X	
Paperbark Maple	Acer griceum	25	20	X	Oval	X		
Chonosuki Crabapple	Malus schonoskii	30	15	X	Oval	X	X	
fA.dirondack Crabapple	Malus adirondack	18	10	X	Upright		X	


4 – 6 Foot Planting Area


Common Name	Botanical Name	Mature Height	Canopy Spread	Under Power Lines	Form	Fall Color	Fruit/ Flower	Birds/ Butterflies
Flowering Ash	Fraxinus ornus	30	15	X	Round	X	X	X
American Hornbeam	Ostrya virginiana	35	35	X	Oval	X		
Black Tupelo	Nyssa sylvatica	45	20		Pyramidal	X		X
Silver Linden	Tilia tomentosa	45	35		Pyramidal	X	X	X
European Beech	Fagus sylvatica 'purpurea tricolor'	35	25		Oval			
Paperbark Maple	Acer griceum	25	20	X	Oval	X		
Princeton Sentry Ginko*	Ginko Biloba Princeton Sentry*	40	15		Columnar	X		
Kobus Magnolia	Magnolia kobus	40	30	X	Globe		X	
Chonosuki Crabapple	Malus schonoskii	30	15	X	Oval	X	X	


Planning Commission Recommendation


SMALL TREES								
Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Canopy Width (ft)	Tree Form		Fall Color	Comments
Acer buergerianum Trident Maple	4	No	30	25	rounded	n/a	yellow	Tolerant of many conditions; year round interest
Acer circinatum 'HS12' Three Cheers Vine Maple	4	yes	10-15	6-8	Upright compact	yes	yellow	Graceful flame form, excellent fall color Native
Acer circinatum 'Pacific Fire' Pacific Fire Vine Maple	4	yes	18	15	upright	yes	Red orange	Bright red twigs in late autumn and winter. Needs dappled shade Native
Acer griseum Paperbark Maple	4	yes	25	20	rounded	n/a	Red orange	Attractive peeling coppery bark
Acer griseum 'JFS-KW8AGRI' Fireburst Paperbark Maple	4	yes	25	18	Upright pyramidal	n/a	Red orange	Attractive peeling bark, selected for street tree form and Fall color.
Acer palmatum 'Bloodgood' Bloodgood Maple	4	yes	20	20	Rounded	n/a	red	Burgundy summer foliage, red fall color
Acer tataricum Tatarian Maple	4	yes	25	15	oval	n/a	Yellow red	Compact crown; tolerant of urban stresses
Acer truncatum x A. platanoides Crimson Sunset Maple	4	no	35	25	oval	n/a	Reddish burgundy	Purple foliage; upright form; good summer heat tolerance
Amelanchier laevis 'JFS-Arb' Spring Flurry Serviceberry	4	yes	25	20	Upright pyramidal	yes	orange	Showy spring flowers, good form


Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Canopy Width (ft)	Tree Form		Fall Color	Comments
Amelanchier x grandiflora 'Autumn Brilliance' Autumn Brilliance Serviceberry	4	yes	20	15	rounded	yes	Orange red	Showy spring flowers, fall color
Amelanchier x grandiflora 'Princess Diana' Princess Diana Serviceberry	4	yes	20	15	rounded	yes	Orange red	Showy spring flowers, pinkish red fall color
Amelanchier x grandiflora 'Robin Hill' Robin Hill Serviceberry	4	yes	20	15	Vase shaped	yes	good	Showy spring flowers, more upright than other varieties
Carpinus caroliniana American Hornbeam	4	no	30	20	rounded	n/a	Reds orange	Excellent fall color, tolerant of many soil conditions
Chionanthus retusus 'Tokyo Tower' Tokyo Tower Chinese Fringetree	4	yes	20	10	columnar	yes	n/a	Showy flower; fruit attracts birds; low maintenance but does not tolerate prolonged dry conditions; tolerant of air pollution
Cornus kousa x nuttallii 'Kn308' Venus Dogwood	4	yes	20	25	vase	yes	reds	Very large white flowers; vigorous growth; needs even moisture
Lagerstroemia indica Crapemyrtle (many varieties)	4	yes	15-25	10-15	rounded	yes	reds	Choose one of many varieties for size and flower color; beautiful peeling bark; can be multistem; lovely small tree
Maackia amurensis Amur Maackia	4	yes	25	20	Broad, rounded	yes	Sometimes yellow	Fragrant spikes pf white flowers in spring; dark olive green leaves; attractive coppery brown exfoliating bark


Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Canopy Width (ft)	Tree Form		Fall Color	Comments
<i>Magnolia acuminata</i> 'Elizabeth' Elizabeth Magnolia	4	yes	25	15	pyramidal	yes	yellow	Yellow flower
<i>Magnolia liliflora</i> x <i>sprengeri</i> Galaxy magnolia	4	yes	30	15	pyramidal	yes	yellow	Strong central leader
<i>Magnolia</i> 'Vulcan' Vulcan Magnolia	4	no	30	10	round	yes	yellow	Central leader; earlier blooms than other magnolias; deep rose flowers
<i>Sorbus americana</i> 'Dwarf Crown' Red Cascade Mountain Ash	4	yes	18	8	Compact oval	yes	Yellow orange	Small orange red clusters of fruit; white spring flower clusters; lustrous summer foliage; ideal for small spaces
<i>Styrax japonicus</i> Japanese Snowbell	4	yes	20	20	rounded	yes	yellow	Regular water until established. Abundant fragrant bell shaped flowers
<i>Syringa pekinensis</i> 'DTR-124' Summer Charm Tree Lilac	4	yes	20	25	Upright spreading	yes	yellow	Dark green glossy foliage; creamy white panicles of flowers
<i>Tilia cordata</i> 'Halka' Summer Sprite Linden	4	yes	20	15	rounded	n/a	yellow	Yellow fall color. Suited to confined city spaces


Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Canopy Width (ft)	Tree Form		Fall Color	Comments
Zelkova serrata 'JFS-KW1' City Sprite Zelkova	4	yes	25	20	Upright pyramidal	n/a	yellow	compact
Zelkova serrata 'Schmidtlow' Wireless Zelkova	4	yes	25	35	Wide rounded	n/a	yellow	Ideal shape for under utility lines
Medium Trees								
Acer campestre Hedge Maple	5	No	35	35	rounded	n/a	yellow	Tolerant of dry soil, compaction. Adaptable
Acer rubrum 'October Glory' October Glory red Maple	5	no	40	35	Broadly oval	n/a	Orange red	Colors later in the fall
Acer rubrum 'Armstrong' Armstrong Red Maple	5	no	45	15	Upright tightly fastigate	n/a	red	Golden orange fall color
Acer grandidentatum 'Mesa Glow' Mesa Glow Bigtooth Maple	5	no	35	20	Upright oval	n/a	Orange red yellow	Drought tolerant and adaptable. Glossy green leaves. Outstanding orange fall color.
Acer grandidentatum 'Rocky Mt Glow' Rocky Mt Glow Bigtooth Maple	5	yes	25	15	oval	n/a	Orange red yellow	Slow growing, intense fall color
Acer grandidentatum x saccharum 'Hipzam' Highland Park Maple	5	no	35	22	Tightly upright pyramidal	n/a	Bright red	Faster growing and more upright than typical bigtooth maple yet smaller and more heat resistant than sugar maple. Dark green leaves.


Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Canopy Width (ft)	Tree Form		Fall Color	Comments
Acer saccharum 'Green Mountain' Green Mountain Sugar Maple	5	no	50	40	Broadly oval	n/a	Red orange	Reliable fall color
Acer saccharum 'Barrett Cole' Apollo Maple	5	no	30	10	Narrow columnar	n/a	Yellow, orange to red	Narrow, dense, compact branching; Withstands summer heat; great fall color
Acer triflorum Three Flowered Maple	5	no	30	30	rounded	n/a	Bright orange red	Lovely exfoliating bark;great fall color; needs reliable moisture
Aesculus californica California Buckeye	5	no	35	35	rounded	yes	yellow	Fragrant white/pink flowers
Aesculus x carnea Red Horse Chestnut	5	no	30	40	rounded	yes	no	Abundant red flowers in spring. Very broad.
Carpinus betulus 'Frans Fontaine' Columnar European Hornbeam	5	no	35	15	columnar	n/a	yellow	Retains columnar form into maturity
Carpinus betulus 'JFS-KW1CB' Emerald Avenue European Hornbeam	5	no	40	28	Broadly pyramidal	n/a	yellow	Vigorous and heat tolerant. Stays deep green in summer heat.
Cercidiphyllum japonicum Katsura Tree	5	no	40	40	Broadly pyramidal	n/a	Golden yellow	Beautiful tree. Casts filtered shade. Lovely form. Needs consistent irrigation
Cercidiphyllum japonicum 'Rotfuchs' Red Fox Katsura	5	no	30	16	Upright oval	n/a	Orange bronze	Compact narrow shape. Deep purple spring foliage.


Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Canopy Width (ft)	Tree Form		Fall Color	Comments
<i>Cercis canadensis</i> Eastern Redbud	5	no	30	30	Broadly oval	yes	yellow	Showy flowers on bare branches in early spring. Tolerant of clay soil
<i>Cupressus nootkatensis</i> "Green Arrow" Green Arrow Alaskan Cedar	5	no	35	5	Very narrow weeping	no	n/a	Extremely narrow weeping growth habit, branches hang close to the trunk; full sun, drought tolerant when established; great for tight spaces
<i>Cercis canadensis</i> 'Forest Pansy' Forest Pansy Redbud	5	yes	20	25	Broadly oval	yes	Yellow orange	Deep purple foliage paling to bronze green foliage. Magenta/rose flowers. Tolerant of clay soil
<i>Cornus nuttallii</i> 'Colrigo Giant'	5	no	40	20	Upright pyramidal		red	Native selected in Columbia River Gorge. Plant in well drained soil.
<i>Cornus</i> 'Eddie's White Wonder' Eddie's White Wonder Dogwood (<i>Cornus florida</i> and <i>nuttalli</i> hybrid)	5	yes	25	20	Upright pyramidal	yes	red	Large, abundant white flower bracts. More adaptable than parent plant <i>Cornus nuttallii</i> .
<i>Cornus kousa</i> x <i>nuttallii</i> 'KN4-43' Starlight Dogwood	5	no	30	20	Upright oval	yes	red	Anthraco-nose and powdery mildew resistant. Abundant creamy white flower bracts.
<i>Cornus Mas</i> 'JFS PN4Legacy' Saffron Sentinel Cornelian Cherry'	5	yes	22	12	columnar	Yes	Deep crimson	Bright yellow flowers followed dark green leaves then bright red fruit. Fruit attractive to birds. Dark brown bark exfoliates (peels) with age.
<i>Cupressus sempervirens</i> Italian Cypress	5	No	20	2	Very tightly columnar	n/a	evergreen	Strongly fastigiate, fast growing, extremely drought tolerant. Grows in dry, poor soils, full sun. can be topped and new leader easily established


Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Canopy Width (ft)	Tree Form		Fall Color	Comments
<i>Davidia involucrata</i> Dove Tree	5	no	40	30	pyramidal	yes	yellow	Very large white flower bracts. Also called "handkerchief tree" for its large flower bracts.
<i>Fagus sylvatica</i> 'Fastigiata' Fastigate Beech	5	no	45	15	fastigate	n/a	Tan, brown	Attractive smooth gray bark. Dark green foliage
<i>Fagus sylvatica</i> 'Roseomarginata' Tricolor European Beech	5	no	30	25	oval	n/a	Tan, brown	Margins of its purple-bronze leaves are irregularly colored with splashes of rose, pink and cream
<i>Fraxinus pennsylvanica</i> 'Summit' Summit Ash	4	no	45	25	pyramidal	n/a	Intense golden yellow	Full sun; moist well drained soils; does not tolerate extended dry conditions; grows quickly for shade
<i>Ginkgo biloba</i> 'Autumn Gold' Autumn Gold Ginkgo	5	no	45	35	Broadly pyramidal	n/a	Golden yellow	Fruitless. Lovely bright gold fall color.
<i>Ginkgo biloba</i> 'JFS-UGA2' Golden Colonnade Ginkgo	5	no	45	25	Narrow oval	n/a	Bright yellow	Ideal for narrow street use. seedless
<i>Ginkgo biloba</i> 'Princeton Sentry' Princeton Sentry Ginkgo	5	no	40	15	Narrowly pyramidal	n/a	Bright yellow	Stiffly upright. Seedless.
<i>Koelreuteria paniculata</i> Goldenrain Tree	5	No	30	30	rounded	yes	yellow	Clusters of yellow flowers. Pinnately compound leaves cast filtered shade.
<i>Koelreuteria paniculata</i> 'JFS-Sunleaf' Summerburst Goldenrain Tree	5	no	30	30	rounded	yes	yellow	Glossy dark green pinnately compound leaves. Holds up in summer heat. Large clusters of bright yellow flowers.

Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Canopy Width (ft)	Tree Form		Fall Color	Comments
Liriodendron tulipifera 'JFS-Oz' Emerald City Tulip Tree	5	no	55	25	Upright oval	yes	Bright yellow	Straighter, more upright than species, slightly compact.
Liriodendron tulipifera 'Fastigiata' Columnar Tulip Tree	5	no	60	20	pyramidal	yes	yellow	Fast growing. Drought tolerant when established. Tolerate periodic standing water.
Notholithocarpus densiflorus Tanoak	5	no	40	30	Variable form. Broadly rounded to pyramidal	yes	evergreen	Flowering with white catkins in spring followed by acorn like fruit. Oregon native, drought tolerant when established
Nyssa sylvatica Tupelo	5	no	45	25	Pyramidal to rounded	n/a	Excellent red	Can tolerate clay soils, standing water or some drought. Although insignificant, tiny flowers very attractive to bees and pollinators.
Nyssa sylvatica 'JFS-red' Firestarter Tupelo	5	No	35	18	Narrow oval	n/a	Bright red	Upsweeping branches, glossy green leaves, bright red fall color that comes earlier than other species
Nyssa sylvatica 'Wildfire' Wildfire Tupelo	5	no	50	30	Pyramidal to rounded	n/a	scarlet	New foliage emerges red then deepens to glossy green, scarlet red fall color
Nyssa sylvatica 'Tupelo Tower' Tupelo Tower Blackgum	5	no	40	15	columnar	n/a	Scarlet red	Columnar habit makes it a good choice for narrower sites.
Ostrya virginiana Hophornbeam	5	no	40	25	Broadly pyramidal	n/a	yellow	Hoplike fruit, slow growing, tolerates urban stress. May hold brown fall leaves throughout winter


Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Canopy Width (ft)	Tree Form		Fall Color	Comments
<i>Ostrya virginiana</i> 'JFS-KW5' Autumn Treasure Hophornbeam	5	no	40	20	Upright pyramidal to oval	n/a	Golden yellow	Doesn't hold brown fall leaves through winter. Clean leaf drop after coloring yellow. Upright narrow form.
<i>Oxydendrum arboreum</i> Sourwood	5	no	50	25	Oblong crown	yes	red	Lovely pannicles of white flowers in June; full sun to part shade; moderate water
<i>Parrotia persica</i> Persian Parrotia	5	no	30	20	Upright oval	n/a	Yellow, orange,br ight red	Bark exfoliating, producing a mosaic of green, white and brown. Excellent fall color. Flowers in early spring on bare branches like witch hazel.
<i>Parrotia persica</i> 'Vanessa' Vanessa Parrotia	5	no	40	20	Upright tight vase	n/a	Yellow, orange,br ight red	Tighter and denser form. Excellent fall color
<i>Parrotia persica</i> 'Persian Spire' Persian Spire Parrotia	5	no	25	10	Upright columnar	n/a	Yellow, orange,br ight red	foliage emerges purple and matures to green with purple tinted margins. Power line approved in Seattle
<i>Picea omorika</i> 'Pendula Bruns' Weeping Siberian Spruce	5'	yes	20	4-5	Strictly narrow weeping	n/a	n/a	Beautiful, widely available narrow weeping evergreen. Silvery blue needles. Safe under wires.
<i>Pinus flexilis</i> 'Vanderwolf's Pyramid'	5	no	35	15	Upright columnar	n/a	n/a	Potential to grow vigorously in ideal conditions
<i>Pinus strobus</i> 'Fastigiata' Fastigate White Pine	5	no	35	8	Tightly columnar	n/a	evergreen	Lovely soft silvery green needles.

Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Canopy Width (ft)	Tree Form		Fall Color	Comments
<i>Prunus sargentii</i> Sargent Flowering Cherry	5	no	30	30	rounded	yes	red	Pink flowers, attractive mahogany bark
<i>Prunus sargentii</i> 'JFS-KW58' Pink Flair Cherry	5	yes	25	15	Upright vase	yes	red	It avoids frost damage by flowering a week or two later than is typical of the species. Single pink flowers, attractive bark
<i>Prunus serrulata</i> Kwanzan Cherry	5	yes	25	20	vase	yes	yellow	Short lived 20 to 25 years. Double pink flowers.
<i>Prunus</i> 'Snowgoose' Snowgoose Cherry	5	yes	20	25	vase	yes	yellow	Flowers appear before the leaves, pure white, single. Tolerant of urban pollution and drought
<i>Prunus subhirtella</i> 'Autumnalis Rosea' Autumn Rose Higan Cherry	5	no	30	25	vase	yes	yellow	Double pink flowers, sporadic autumn bloom.
<i>Prunus x yedoensis</i> Yoshino Cherry	5	no	40	30	vase	yes	yellow	Flowers appear before leaves in spring
<i>Quercus bicolor</i> 'Bonnie and Mike' Beacon Oak	5	no	40	15	Tightly columnar	n/a	Nice yellow	Perfect densely columnar street tree with glossy deep green leaves. Corky bark
<i>Quercus hypoleucoides</i> Silverleaf Oak	5	no	30	30	rounded	no	n/a	Gray silver leaves, semi-evergreen; hot sites, little or no water

Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Canopy Width (ft)	Tree Form		Fall Color	Comments
<i>Quercus myrsinifolia</i> Bambooleaf Oak	5'	yes	30	30	rounded	no	n/a	Silvery green broadleaf evergreen. Ice storm damage resistant. Silvery purplish new growth. Fast grower but safe under wires.
<i>Quercus robur</i> x <i>Q. alba</i> 'Crimschmidt' Crimson Spire Oak	5	no	45	15	columnar	No	Rusty red	Mildew resistant dark bluish green leaves; tightly fastigate. Brown fall leaves persist throughout winter.
<i>Quercus robur</i> x <i>Q. alba</i> 'JFS-KW1QX' Streetspire Oak	5	no	45	14	Narrow columnar	no	Rusty red	Dark green leaves. Does not hold brown autumn leaves throughout winter. Wide crotch angle of branches make it resistant to storm damage
<i>Quercus robur</i> x <i>Q. alba</i> 'JFS-KW2QX' Skinny Genes Oak	5	no	45	10	Narrow columnar	no	yellow	Mildew resistant dark green leaves. Tightly narrow.
<i>Sorbus aucuparia</i> 'Michred' Cardinal Royal Mountain Ash	5	no	35	20	Upright narrow oval	yes	rust	Small brilliant red berries in fall; white clusters of flowers; symmetrical tidy habit
<i>Stewartia monadelph</i> a Tall Stewartia	5	no	30	20	pyramidal	yes	Yellow, orange, red	White showy flowers in spring through early summer. Attractive peeling bark. Avoid hot dry sites, roots need to be shaded.
<i>Stewartia pseudocamellia</i> Japanese Stewartia	5	no	30	25	pyramidal	yes	Yellow, orange, red	Attractive spring through early summer flowers. Attractive peeling bark. Great fall color


Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Canopy Width (ft)	Tree Form		Fall Color	Comments
<i>Styrax obassia</i> Fragrant Snowbell	5	no	30	20	Upright rounded	yes	yellow	Racemes of fragrant white bells. Attractive to hummingbirds
<i>Taxodium distichum</i> 'Mickelson' Shawnee Brave Bald Cypress	5	no	50	20	pyramidal	n/a	cinnamon brown	Tolerates clay soils. Lovely deciduous conifer that is narrow and upright. Fine foliage.
<i>Tilia cordata</i> 'De Groot' Summer Sprite Linden	5	no	30	20	pyramidal	n/a	yellow	Insignificant flowers that are very attractive to pollinators. Compact form
<i>Ulmus</i> 'Frontier' Frontier Elm	5	no	40	30	Vase to oval	n/a	burgundy	Redpurple to burgundy fall color. Tolerance to Dutch Elm Disease and phloem necrosis
<i>Ulmus propinqua</i> 'JFS Bieberich' Emerald Sunshine Elm	5	no	35	25	vase	n/a	yellow	Resistant to Elm Leaf Beetle and Japanese Beetle; tolerance to Dutch Elm disease and phloem necrosis; tolerant of heat and drought; leaves emerge bronze then turn dark green.
<i>Umbellularia californica</i> Oregon Myrtle	5	no	55	40	rounded	yes	evergreen	White flowers in spring; Native to Oregon; evergreen; quite drought tolerant when established; leaves have spicy fragrance
<i>Zelkova serrata</i> 'Village Green' Village green Zelkova	5	no	50	40	rounded	n/a	yellow	High tolerance to wind, pollution, drought and compacted soils.

Large trees

Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Canopy Width (ft)	Tree Form		Fall Color	Comments
Metasequoia glyptostroboides Dawn Redwood	6'	no	70	20	pyramidal	n/a	Cinnamon brown/gold	Beautiful vigorous deciduous conifer with feathery foliage
Quercus frainetto 'Schmidt' Forest Green Oak	5	No	50	30	Upright oval	n/a	Brown yellow	Upright growing;vigorous;strong central leader;dark green leaves;drought resistant
Quercus coccinea Scarlet Oak	6	no	50	40	Open, broadly oval	n/a	Scarlet red	Glossy dark green leaves hold up in summer heat
Quercus macrocarpa 'JFS-KW3' Urban Pinnade Oak	5	no	55	25	Narrow pyramidal to oval	n/a	yellow	Resistant to mildew and anthracnose; very small acorns
Quercus rubra Red Oak	5	no	50	45	rounded	n/a	red	Fast growing;broad headed;can grow in tough conditions like compacted soil,poor drainage and drought.
Taxodium distichum Bald Cypress	6	no	60	25	pyramidal	n/a	Cinnamon brown	Tolerant of clay soil. Lovely spring bright green new growth. Fine foliage lends bright shade.
Ulmus 'Frontier' Frontier Elm	6	no	40	30	Vase to oval	n/a	burgundy	Unique to elms for its burgundy fall color; tolerance to Dutch elm disease and phloem necrosis;

Ulmus americana 'Jefferson' Jefferson Elm	8	no	70	50	vase	n/a	yellow	Arching limbs;disease tolerance to Dutch elm disease and phloem necrosis
Ulmus parvifolia 'Allee' Allee Lacebark Elm	6	no	50	35	Upright vase	n/a	Yellow red	Bark is a mosaic of orange, tan and gray; glossy green leaves; mature specimens proven resistant to ice storm damage.
PROHIBITED TREES								
Betula pendula European Birch								No drought tolerance; ice damage; weakened by bronze birch borer
Betula jacquemontii Jaquemontii Birch								No drought tolerance; ice damage; weakened by bronze birch borer
Prunus 'Newport', Thundercloud', Mt St. Helens'								Defoliates from leafspot, ugly habit;brief spring bloom doesn't compensate for poor form, foliage and low twiggy branching
Crataegus laevigata 'Paul's Scarlet' Paul's Scarlet Hawthorn								Ugly habit; drop limbs; defoliates in summer.
Gleditsia Honeylocust								Becomes diseased and defoliates; drops branches; not suited to this climate
Acer platanoides Norway Maple								Considered invasive. Allow by permission in limited quantities and circumstances.
Pyrus calleryana								Invasive species and overused


Oregon Department of Forestry Comments

SMALL TREES								
Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Canopy Width (ft)	Tree Form		Fall Color	Comments
Acer buergerianum Trident Maple	4	No	30	25	rounded	n/a	yellow	Tolerant of many conditions; year round interest
Acer circinatum 'HS12' Three Cheers Vine Maple	4	yes	10-15	6-8	Upright compact	yes	yellow	Graceful flame form, excellent fall color Native
Acer circinatum 'Pacific Fire' Pacific Fire Vine Maple	4	yes	18	15	upright	yes	Red orange	Bright red twigs in late autumn and winter. Needs dappled shade Native
Acer griseum Paperbark Maple	4	yes	25	20	rounded	n/a	Red orange	Attractive peeling coppery bark
Acer griseum 'JFS-KW8AGRI' Fireburst Paperbark Maple	4	yes	25	18	Upright pyramidal	n/a	Red orange	Attractive peeling bark, selected for street tree form and Fall color.
Acer palmatum 'Bloodgood' Bloodgood Maple	4	yes	20	20	Rounded	n/a	red	Burgundy summer foliage, red fall color
Acer tataricum Tatarian Maple	4	yes	25	15	oval	n/a	Yellow red	Compact crown; tolerant of urban stresses
Acer truncatum x A. platanoides Crimson Sunset Maple	4	no	35	25	oval	n/a	Reddish burgundy	Purple foliage; upright form; good summer heat tolerance
Amelanchier laevis 'JFS-Arb' Spring Flurry Serviceberry	4	yes	25	20	Upright pyramidal	yes	orange	Showy spring flowers, good form

Commented [SA1]: Our team wonders about the drought tolerance of vine maple and susceptibility to sunscald. We also wonder about the fact that vine maples tend to be multi-stemmed and take up a lot of space at head height.

Commented [SA2]: Concerns about performance as a street tree (drought tolerance, multi-stemmed, etc.)


Commented [SA3]: Concerns about serviceberry's susceptibility to foliar rust.

Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Canopy Width (ft)	Tree Form		Fall Color	Comments
Amelanchier x grandiflora 'Autumn Brilliance' Autumn Brilliance Serviceberry	4	yes	20	15	rounded	yes	Orange red	Showy spring flowers, fall color
Amelanchier x grandiflora 'Princess Diana' Princess Diana Serviceberry	4	yes	20	15	rounded	yes	Orange red	Showy spring flowers, pinkish red fall color
Amelanchier x grandiflora 'Robin Hill' Robin Hill Serviceberry	4	yes	20	15	Vase shaped	yes	good	Showy spring flowers, more upright than other varieties
Carpinus caroliniana American Hornbeam	4	no	30	20	rounded	n/a	Reds orange	Excellent fall color, tolerant of many soil conditions
Chionanthus retusus 'Tokyo Tower' Tokyo Tower Chinese Fringetree	4	yes	20	10	columnar	yes	n/a	Showy flower; fruit attracts birds; low maintenance but does not tolerate prolonged dry conditions; tolerant of air pollution
Cornus kousa x nuttallii 'Kn308' Venus Dogwood	4	yes	20	25	vase	yes	reds	Very large white flowers; vigorous growth; needs even moisture
Lagerstroemia indica Crape myrtle (many varieties)	4	yes	15-25	10-15	rounded	yes	reds	Choose one of many varieties for size and flower color; beautiful peeling bark; can be multistem; lovely small tree
Maackia amurensis Amur Maackia	4	yes	25	20	Broad, rounded	yes	Sometimes yellow	Fragrant spikes pf white flowers in spring; dark olive green leaves; attractive coppery brown exfoliating bark

Commented [SA4]: Fringetree are potentially susceptible to Emerald Ash Borer. Best to avoid.

Commented [SA5]: Potential concerns about sun exposure and drought tolerance


Commented [SA6]: Potential concerns with overhead powerlines

Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Canopy Width (ft)	Tree Form		Fall Color	Comments
Magnolia acuminata 'Elizabeth' Elizabeth Magnolia	4	yes	25	15	pyramidal	yes	yellow	Yellow flower
Magnolia liliflora x sprengeri Galaxy magnolia	4	yes	30	15	pyramidal	yes	yellow	Strong central leader
Magnolia 'Vulcan' Vulcan Magnolia	4	no	30	10	round	yes	yellow	Central leader; earlier blooms than other magnolias; deep rose flowers
Sorbus americana 'Dwarf Crown' Red Cascade Mountain Ash	4	yes	18	8	Compact oval	yes	Yellow orange	Small orange red clusters of fruit; white spring flower clusters; lustrous summer foliage; ideal for small spaces
Styrax japonicus Japanese Snowbell	4	yes	20	20	rounded	yes	yellow	Regular water until established. Abundant fragrant bell shaped flowers
Syringa pekinensis 'DTR-124' Summer Charm Tree Lilac	4	yes	20	25	Upright spreading	yes	yellow	Dark green glossy foliage; creamy white panicles of flowers
Tilia cordata 'Halka' Summer Sprite Linden	4	yes	20	15	rounded	n/a	yellow	Yellow fall color. Suited to confined city spaces


Commented [SA7]: Our team has concerns about magnolias in narrow planting strips. They are notorious sidewalk busters...

Commented [SA8R7]: Concern about the performance/short life span of mountain ash as a street tree

Commented [SA9]: Tilia cordata can be susceptible to aphids and basal resprouting. Our team is more partial to silver linden (Tilia tomentosa) as a street tree

Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Canopy Width (ft)	Tree Form	 Fall Color	Comments
Zelkova serrata 'JFS-KW1' City Sprite Zelkova	4	yes	25	20	Upright pyramidal	n/a yellow	compact
Zelkova serrata 'Schmidtlow' Wireless Zelkova	4	yes	25	35	Wide rounded	n/a yellow	Ideal shape for under utility lines
Medium Trees							
Acer campestre Hedge Maple	5	No	35	35	rounded	n/a yellow	Tolerant of dry soil, compaction. Adaptable
Acer rubrum 'October Glory' October Glory red Maple	5	no	40	35	Broadly oval	n/a Orange red	Colors later in the fall
Acer rubrum 'Armstrong' Armstrong Red Maple	5	no	45	15	Upright tightly fastigiate	n/a red	Golden orange fall color
Acer grandidentatum 'Mesa Glow' Mesa Glow Bigtooth Maple	5	no	35	20	Upright oval	n/a Orange red yellow	Drought tolerant and adaptable. Glossy green leaves. Outstanding orange fall color.
Acer grandidentatum 'Rocky Mt Glow' Rocky Mt Glow Bigtooth Maple	5	yes	25	15	oval	n/a Orange red yellow	Slow growing, intense fall color
Acer grandidentatum x saccharum Hipzam Highland Park Maple	5	no	35	22	Tightly upright pyramidal	n/a Bright red	Faster growing and more upright than typical bigtooth maple yet smaller and more heat resistant than sugar maple. Dark green leaves.

Commented [SA10]: Red maples can have aggressive surface roots and can be susceptible to drought stress

Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Canopy Width (ft)	Tree Form		Fall Color	Comments
Acer saccharum 'Green Mountain' Green Mountain Sugar Maple	5	no	50	40	Broadly oval	n/a	Red orange	Reliable fall color
Acer saccharum 'Barrett Cole' Apollo Maple	5	no	30	10	Narrow columnar	n/a	Yellow, orange to red	Narrow, dense, compact branching; Withstands summer heat; great fall color
Acer triflorum Three Flowered Maple	5	no	30	30	rounded	n/a	Bright orange red	Lovely exfoliating bark; great fall color; needs reliable moisture
Aesculus californica California Buckeye	5	no	35	35	rounded	yes	yellow	Fragrant white/pink flowers
Aesculus x carnea Red Horse Chestnut	5	no	30	40	rounded	yes	no	Abundant red flowers in spring. Very broad
Carpinus betulus 'Frans Fontaine' Columnar European Hornbeam	5	no	35	15	columnar	n/a	yellow	Retains columnar form into maturity
Carpinus betulus 'JFS-KW1CB' Emerald Avenue European Hornbeam	5	no	40	28	Broadly pyramidal	n/a	yellow	Vigorous and heat tolerant. Stays deep green in summer heat.
Cercidiphyllum japonicum Katsura Tree	5	no	40	40	Broadly pyramidal	n/a	Golden yellow	Beautiful tree. Casts filtered shade. Lovely form. Needs consistent irrigation
Cercidiphyllum japonicum 'Rotfuchs' Red Fox Katsura	5	no	30	16	Upright oval	n/a	Orange bronze	Compact narrow shape. Deep purple spring foliage.


Commented [SA11]: Sugar maples can struggle with drought

Commented [SA12]: We wonder about vulnerability to drought

Commented [SA13]: More of a shrub than a tree, but lovely flowers and regionally native

Commented [SA14]: We wonder about narrow planting strips. May require 6" min. planter strip as a street tree

Commented [SA15]: Katsura trees are lovely but really struggle as street trees.

Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Canopy Width (ft)	Tree Form		Fall Color	Comments
Cercis canadensis Eastern Redbud	5	no	30	30	Broadly oval	yes	yellow	Showy flowers on bare branches in early spring. Tolerant of clay soil
Cupressus nootkatensis "Green Arrow" Green Arrow Alaskan Cedar	5	no	35	5	Very narrow weeping	no	n/a	Extremely narrow weeping growth habit, branches hang close to the trunk; full sun, drought tolerant when established; great for tight spaces
Cercis canadensis 'Forest Pansy' Forest Pansy Redbud	5	yes	20	25	Broadly oval	yes	Yellow orange	Deep purple foliage paling to bronze green foliage. Magenta/rose flowers. Tolerant of clay soil
Cornus nuttallii 'Colrigo Giant'	5	no	40	20	Upright pyramidal		red	Native selected in Columbia River Gorge. Plant in well drained soil.
Cornus 'Eddie's White Wonder' Eddie's White Wonder Dogwood (Cornus florida and nuttallii hybrid)	5	yes	25	20	Upright pyramidal	yes	red	Large, abundant white flower bracts. More adaptable than parent plant Cornus nuttallii.
Cornus kousa x nuttallii 'KN4-43' Starlight Dogwood	5	no	30	20	Upright oval	yes	red	Anthracnose and powdery mildew resistant. Abundant creamy white flower bracts.
Cornus Mas 'JFS PN4Legacy' Saffron Sentinel Cornelian Cherry	5	yes	22	12	columnar	Yes	Deep crimson	Bright yellow flowers followed dark green leaves then bright red fruit. Fruit attractive to birds. Dark brown bark exfoliates (peels) with age.
Cupressus sempervirens Italian Cypress	5	No	20	2	Very tightly columnar	n/a	evergreen	Strongly fastigate, fast growing, extremely drought tolerant. Grows in dry, poor soils, full sun. can be topped and new leader easily established


Commented [SA16]: Redbud struggle as street trees in the southern Willamette Valley (we call them "deadbuds"). Lovely flowers but really poor performance

Commented [SA17]: We're not familiar with this cultivar and how it would fare as a street tree

Commented [SA18]: Eastern and native dogwoods can be highly susceptible to anthracnose and drought stress, sunscald. Plant with caution.

Commented [SA19]: Cornus Kousa is resistant to anthracnose and can often perform well as a street tree

Commented [SA20]: Cornus mas can be low branching


Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Canopy Width (ft)	Tree Form		Fall Color	Comments
<i>Davidia involucrata</i> Dove Tree	5	no	40	30	pyramidal	yes	yellow	Very large white flower bracts. Also called "handkerchief tree" for its large flower bracts.
<i>Fagus sylvatica</i> 'Fastigiata' Fastigate Beech	5	no	45	15	fastigate	n/a	Tan, brown	Attractive smooth gray bark. Dark green foliage
<i>Fagus sylvatica</i> 'Roseomarginata' Tricolor European Beech	5	no	30	25	oval	n/a	Tan, brown	Margins of its purple-bronze leaves are irregularly colored with splashes of rose, pink and cream
<i>Fraxinus pennsylvanica</i> 'Summit' Summit Ash	4	no	45	25	pyramidal	n/a	Intense golden yellow	Full sun; moist well drained soils; does not tolerate extended dry conditions; grows quickly for shade
<i>Ginkgo biloba</i> 'Autumn Gold' Autumn Gold Ginkgo	5	no	45	35	Broadly pyramidal	n/a	Golden yellow	Fruitless. Lovely bright gold fall color.
<i>Ginkgo biloba</i> 'JFS-UGA2' Golden Colonnade Ginkgo	5	no	45	25	Narrow oval	n/a	Bright yellow	Ideal for narrow street use. seedless
<i>Ginkgo biloba</i> 'Princeton Sentry' Princeton Sentry Ginkgo	5	no	40	15	Narrowly pyramidal	n/a	Bright yellow	Stiffly upright. Seedless.
<i>Koelreuteria paniculata</i> Goldenrain Tree	5	No	30	30	rounded	yes	yellow	Clusters of yellow flowers. Pinnately compound leaves cast filtered shade.
<i>Koelreuteria paniculata</i> 'JFS-Sunleaf' Summerburst Goldenrain Tree	5	no	30	30	rounded	yes	yellow	Glossy dark green pinnately compound leaves. Holds up in summer heat. Large clusters of bright yellow flowers.

Commented [SA21]: Can perform well as a park tree, not sure about it's performance as a street tree

Commented [SA22]: Beech can be temperamental with summer drought


Commented [SA23R22]: Due to Emerald Ash Borer, we highly recommend removing all ash from recommended lists

Commented [SA24]: Ginkgos can get large. We wonder about sidewalk impacts in a 5 foot planter strip

Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Canopy Width (ft)	Tree Form		Fall Color	Comments
<i>Liriodendron tulipifera</i> 'JFS-Oz' Emerald City Tulip Tree	5	no	55	25	Upright oval	yes	Bright yellow	Straighter, more upright than species, slightly compact.
<i>Liriodendron tulipifera</i> 'Fastigiata' Columnar Tulip Tree	5	no	60	20	pyramidal	yes	yellow	Fast growing. Drought tolerant when established. Tolerate periodic standing water.
<i>Notholithocarpus densiflorus</i> Tanoak	5	no	40	30	Variable form, Broadly rounded to pyramidal	yes	evergreen	Flowering with white catkins in spring, followed by acorn like fruit. Oregon native, drought tolerant when established
<i>Nyssa sylvatica</i> Tupelo	5	no	45	25	Pyramidal to rounded	n/a	Excellent red	Can tolerate clay soils, standing water or some drought. Although insignificant, tiny flowers very attractive to bees and pollinators.
<i>Nyssa sylvatica</i> 'JFS-red' Firestarter Tupelo	5	No	35	18	Narrow oval	n/a	Bright red	Upsweeping branches, glossy green leaves, bright red fall color that comes earlier than other species
<i>Nyssa sylvatica</i> 'Wildfire' Wildfire Tupelo	5	no	50	30	Pyramidal to rounded	n/a	scarlet	New foliage emerges red then deepens to glossy green, scarlet red fall color
<i>Nyssa sylvatica</i> 'Tupelo Tower' Tupelo Tower Blackgum	5	no	40	15	columnar	n/a	Scarlet red	Columnar habit makes it a good choice for narrower sites.
<i>Ostrya virginiana</i> Hophornbeam	5	no	40	25	Broadly pyramidal	n/a	yellow	Hoplike fruit, slow growing, tolerates urban stress. May hold brown fall leaves throughout winter

Commented [SA25]: Tulip poplars can be susceptible to aphids/honeydew and impact sidewalks, but worth planting

Commented [SA26]: Tanoaks are very difficult to grow outside of Southern OR and really struggle. They also have small irritating hairs on their leaves. We'd discourage tanoak on the list.


Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Canopy Width (ft)	Tree Form		Fall Color	Comments
<i>Ostrya virginiana</i> 'JFS-KW5' Autumn Treasure Hophornbeam	5	no	40	20	Upright pyramidal to oval	n/a	Golden yellow	Doesn't hold brown fall leaves through winter. Clean leaf drop after coloring yellow. Upright narrow form.
<i>Oxydendrum arboreum</i> Sourwood	5	no	50	25	Oblong crown	yes	red	Lovely pannicles of white flowers in June; full sun to part shade; moderate water
<i>Parrotia persica</i> Persian Parrotia	5	no	30	20	Upright oval	n/a	Yellow, orange, br ight red	Bark exfoliating, producing a mosaic of green, white and brown. Excellent fall color. Flowers in early spring on bare branches like witch hazel
<i>Parrotia persica</i> 'Vanessa' Vanessa Parrotia	5	no	40	20	Upright tight vase	n/a	Yellow, orange, br ight red	Tighter and denser form. Excellent fall color
<i>Parrotia persica</i> 'Persian Spire' Persian Spire Parrotia	5	no	25	10	Upright columnar	n/a	Yellow, orange, br ight red	follage emerges purple and matures to green with purple tinted margins. Power line approved in Seattle
<i>Picea omorika</i> 'Pendula Bruns' Weeping Siberian Spruce	5'	yes	20	4-5	Strictly narrow weeping	n/a	n/a	Beautiful, widely available narrow weeping evergreen. Silvery blue needles. Safe under wires.
<i>Pinus flexilis</i> 'Vanderwolf's Pyramid'	5	no	35	15	Upright columnar	n/a	n/a	Potential to grow vigorously in ideal conditions
<i>Pinus strobus</i> 'Fastigiata' Fastigiata White Pine	5	no	35	8	Tightly columnar	n/a	evergreen	Lovely soft silvery green needles.

Commented [SA27]: Sourwood trees are lovely but tend to struggle as streettrees.


Commented [SA28]: Not familiar with this cultivar - no input here

Commented [SA30R29]: White pines can struggle with summer drought

Commented [SA29]: Not familiar with this cultivar or sure how it would fare as a street tree


Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Canopy Width (ft)	Tree Form		Fall Color	Comments
Prunus sargentii Sargent Flowering Cherry	5	no	30	30	rounded	yes	red	Pink flowers, attractive mahogany bark
Prunus sargentii 'JFS-KW58' Pink Flair Cherry	5	yes	25	15	Upright vase	yes	red	It avoids frost damage by flowering a week or two later than is typical of the species. Single pink flowers, attractive bark
Prunus serrulata Kwanzan Cherry	5	yes	25	20	vase	yes	yellow	Short lived 20 to 25 years. Double pink flowers.
Prunus 'Snowgoose' Snowgoose Cherry	5	yes	20	25	vase	yes	yellow	Flowers appear before the leaves, pure white, single. Tolerant of urban pollution and drought
Prunus subhirtella 'Autumnalis Rosea' Autumn Rose Higan Cherry	5	no	30	25	vase	yes	yellow	Double pink flowers, sporadic autumn bloom.
Prunus x yedoensis Yoshino Cherry	5	no	40	30	vase	yes	yellow	Flowers appear before leaves in spring
Quercus bicolor 'Bonnie and Mike' Beacon Oak	5	no	40	15	Tightly columnar	n/a	Nice yellow	Perfect densely columnar street tree with glossy deep green leaves. Corky bark
Quercus hypoleucoides Silverleaf Oak	5	no	30	30	rounded	no	n/a	Gray silver leaves, semi-evergreen; hot sites, little or no water

Commented [SA31]: We'd advise caution with cherries as street trees. They are notorious for sidewalk damage and several varieties have very low branching that is problematic for street and sidewalk clearance. That said, the flowers can be stunning in spring.

Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Canopy Width (ft)	Tree Form		Fall Color	Comments
<i>Quercus myrsinifolia</i> Bambooleaf Oak	5	yes	30	30	rounded	no	n/a	Silvery green broadleaf evergreen. Ice storm damage resistant. Silvery purplish new growth. Fast grower but safe under wires
<i>Quercus robur</i> x <i>Q. alba</i> 'Crimschmidt' Crimson Spire Oak	5	no	45	15	columnar	No	Rusty red	Mildew resistant dark bluish green leaves; tightly fastigate. Brown fall leaves persist throughout winter.
<i>Quercus robur</i> x <i>Q. alba</i> 'JFS-KW1QX' Streetspire Oak	5	no	45	14	Narrow columnar	no	Rusty red	Dark green leaves. Does not hold brown autumn leaves throughout winter. Wide crotch angle of branches make it resistant to storm damage
<i>Quercus robur</i> x <i>Q. alba</i> 'JFS-KW2QX' Skinny Genes Oak	5	no	45	10	Narrow columnar	no	yellow	Mildew resistant dark green leaves. Tightly narrow.
<i>Sorbus aucuparia</i> 'Michred' Cardinal Royal Mountain Ash	5	no	35	20	Upright narrow oval	yes	rust	Small brilliant red berries in fall; white clusters of flowers; symmetrical tidy habit
<i>Stewartia monadelph</i> Tall Stewartia	5	no	30	20	pyramidal	yes	Yellow, orange, red	White showy flowers in spring through early summer. Attractive peeling bark. Avoid hot dry sites, roots need to be shaded.
<i>Stewartia pseudocamellia</i> Japanese Stewartia	5	no	30	25	pyramidal	yes	Yellow, orange, red	Attractive spring through early summer flowers. Attractive peeling bark. Great fall color


Commented [SA32]: Mountain ash tend to be very short-lived and have performance issues

Commented [SA33]: Stewartias are lovely trees but can be finicky (high mortality as street trees)

Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Canopy Width (ft)	Tree Form		Fall Color	Comments
<i>Styrax obassia</i> Fragrant Snowbell	5	no	30	20	Upright rounded	yes	yellow	Racemes of fragrant white bells. Attractive to hummingbirds
<i>Taxodium distichum</i> 'Mickelson' Shawnee Brave Bald Cypress	5	no	50	20	pyramidal	n/a	cinnamon brown	Tolerates clay soils. Lovely deciduous conifer that is narrow and upright. Fine foliage.
<i>Tilia cordata</i> 'De Groot' Summer Sprite Linden	5	no	30	20	pyramidal	n/a	yellow	Insignificant flowers that are very attractive to pollinators. Compact form
<i>Ulmus</i> 'Frontier' Frontier Elm	5	no	40	30	Vase to oval	n/a	burgundy	Redpurple to burgundy fall color. Tolerance to Dutch Elm Disease and phloem necrosis
<i>Ulmus propinqua</i> 'JFS Bieberich' Emerald Sunshine Elm	5	no	35	25	vase	n/a	yellow	Resistant to Elm Leaf Beetle and Japanese Beetle; tolerance to Dutch Elm disease and phloem necrosis; tolerant of heat and drought; leaves emerge bronze then turn dark green
<i>Umbellularia californica</i> Oregon Myrtle	5	no	55	40	rounded	yes	evergreen	White flowers in spring; Native to Oregon; evergreen; quite drought tolerant when established; leaves have spicy fragrance
<i>Zelkova serrata</i> 'Village Green' Village green Zelkova	5	no	50	40	rounded	n/a	yellow	High tolerance to wind, pollution, drought and compacted soils.

Commented [SA34]: As mentioned above, we are more partial to silver linden (*Tilia tomentosa*).

Large trees

Scientific Name Common Name	Minimum Planter Width	Under Wires ?	Mature Height (ft)	Canopy Width (ft)	Tree Form	 Fall Color	Comments
<i>Metasequoia glyptostroboides</i> Dawn Redwood	6	no	70	20	pyramidal	n/a Cinnamon brown/gold	Beautiful vigorous deciduous conifer with feathery foliage
<i>Quercus frainetto</i> 'Schmidt' Forest Green Oak	5	No	50	30	Upright oval	n/a Brown yellow	Upright growing; vigorous; strong central leader; dark green leaves; drought resistant
<i>Quercus coccinea</i> Scarlet Oak	6	no	50	40	Open, broadly oval	n/a Scarlet red	Glossy dark green leaves hold up in summer heat
<i>Quercus macrocarpa</i> 'JFS-KW3' Urban Pinnate Oak	5	no	55	25	Narrow pyramidal to oval	n/a yellow	Resistant to mildew and anthracnose; very small acorns
<i>Quercus rubra</i> Red Oak	5	no	50	45	rounded	n/a red	Fast growing; broad headed; can grow in tough conditions like compacted soil, poor drainage and drought.
<i>Taxodium distichum</i> Bald Cypress	6	no	60	25	pyramidal	n/a Cinnamon brown	Tolerant of clay soil. Lovely spring bright green new growth. Fine foliage lends bright shade.
<i>Ulmus</i> 'Frontier' Frontier Elm	6	no	40	30	Vase to oval	n/a burgundy	Unique to elms for its burgundy fall color; tolerance to Dutch elm disease and phloem necrosis.

Commented [SA35]: Can get really big and cause sidewalk damage in narrow planting strips. Can drop acorns. Plant with caution. We're seeing drought stress in established street trees in Eugene. Great tree in the right spot.

Ulmus americana 'Jefferson' Jefferson Elm	8	no	70	50	vase	n/a	yellow	Arching limbs;disease tolerance to Dutch elm disease and phloem necrosis
Ulmus parvifolia 'Allee' Allee Lacebark Elm	6	no	50	35	Upright vase	n/a	Yellow red	Bark is a mosaic of orange, tan and gray; glossy green leaves; mature specimens proven resistant to ice storm damage.
PROHIBITED TREES								
Betula pendula European Birch								No drought tolerance; ice damage; weakened by bronze birch borer
Betula jacquemontii Jaquemontii Birch								No drought tolerance; ice damage; weakened by bronze birch borer
Prunus 'Newport', Thundercloud', Mt St. Helens'								Defoliates from leafspot, ugly habit;brief spring bloom doesn't compensate for poor form, foliage and low twiggly branching
Crataegus laevigata 'Paul's Scarlet' Paul's Scarlet Hawthorn								Ugly habit; drop limbs; defoliates in summer.
Gleditsia Honeylocust								Becomes diseased and defoliates; drops branches; not suited to this climate
Acer platanoides Norway Maple								Considered invasive. Allow by permission in limited quantities and circumstances.
Pyrus calleryana								Invasive species and overused

Commented [SA36]: Good tree - can require a lot of pruning as a street tree.

Commented [SA37]: We recommend adding Ailanthus altissima (tree of heaven) and discouraging new plantings of any ash trees.

PGE Street Tree List & Information

Attachment 2

Street Tree List - Small Stature Trees (up to 25' in height at maturity)							
Common Name	Scientific Name	Height (feet)	Spread (feet)	Canopy Area	Soil Type	Suitable for Under Powerlines	TPA Comments
Trident Maple	<i>Acer buergeranum</i>	25'	20'	314 sq. ft.	all	Yes	thin barked maples easily get sunscald and/or drought stressed
Vine Maple	<i>Acer circinatum</i>	25'	25'	491 sq. ft.	well drained	Yes	native to Portland metropolitan region, requires some shade
Amur Maple	<i>Acer ginnala</i>	25'	20'				thin barked maples easily get sunscald and/or drought stressed
Paperbark Maple	<i>Acer griseum</i>	25'	25'	491 sq. ft.	any	Yes*	attractive peeling bark
Fullmoon-Maple	<i>Acer japonicum</i>	25'	25'				thin barked maples easily get sunscald and/or drought stressed
Japanese Maple	<i>Acer palmatum</i>	20'	25'	491 sq. ft.	any	Yes	do not plant dwarf varieties
Tatarian Maple	<i>Acer tataricum</i>	20'	20'	314 sq. ft.	all	Yes	thin barked maples easily get sunscald and/or drought stressed
Chinese Maple	<i>Acer truncatum</i>	20'	20'				thin barked maples easily get sunscald and/or drought stressed
Serviceberry	<i>Amelanchier arborea</i>	20'	25'	491 sq. ft.	well drained	Yes	hardy species
Allegheny Serviceberry	<i>Amelanchier laevis</i>	30'-25'	15'	177 sq. ft.	well drained	Yes*	edible berries
Apple Serviceberry	<i>Amelanchier x grandiflora</i>	25'	15'	177 sq. ft.	well drained	Yes	branches resist breakage
Western Serviceberry	<i>Amelanchier alnifolia</i>	20'	20'	314 sq. ft.	well drained	Yes	native to Portland metropolitan region
Strawberry Tree	<i>Arbutus unedo</i>	20'-25'	20'	314 sq. ft.	any	No	durable tree once established
American Hornbeam	<i>Carpinus caroliniana</i>	25'	20'	314 sq. ft.	any	No	requires moderate amount of water
Japanese Hornbeam	<i>Carpinus japonica</i>	20'	25'	491 sq. ft.	any	No	no serious pest or disease issues
Chinese Catalpa	<i>Catalpa ovata</i>	25'	25'	491 sq. ft.	well drained	No	large leaves
Eastern Redbud	<i>Cercis canadensis</i>	25'	25'	491 sq. ft.	any	Yes*	this is a delicate tree not resistant to climate change
Judas Tree	<i>Cercis siliquastrum</i>	25'	30'	707 sq. ft.	any	Yes	native to southern Europe and western Asia
Gloryblower Tree	<i>Clerodendrum trichotomum</i>	20'	20'	314 sq. ft.	well drained	Yes	may freeze back in cold winters
Kousa Dogwood	<i>Cornus kousa</i>	20'	20'	491 sq. ft.	any	Yes*	prefers some shade
Flowering Dogwood	<i>Cornus florida</i>	25'	25'	491 sq. ft.	any	Yes	this is a delicate tree not resistant to climate change

Attachment 2

Corneliancherry Dogwood	<i>Cornus mas</i>	20'	15'	177 sq. ft.	any	Yes	requires ample water, but otherwise hardy
Common Smoketree	<i>Cotinus coggygria</i>	15'	15'	177 sq. ft.	well drained	Yes	native range is southern Europe to central China
American Smoketree	<i>Cotinus obovatus</i>	25'	25'	491 sq. ft.	well drained	Yes	native to eastern US
Lavalle Hawthorne	<i>Crataegus x lavallei</i>	25'	20'	314 sq. ft.	any	Yes	has thorns
Goldenrain Tree	<i>Koelreuteria paniculata</i>	20'	15'	177 sq. ft.	any	Yes	widely used in California
Crape Myrtle	<i>Lagerstroemia indica</i>	20'	20'	314 sq. ft.	well drained	Yes	choose variety adapted to Portland region
Maackia	<i>Maackii amurensis</i>	30' 25'+	25'	491 sq. ft.	well drained	No	rounded form
Sweetbay Magnolia	<i>Magnolia virginiana</i>	30' 25'+	20'	314 sq. ft.	well drained	No	fragrant
Loebner Magnolia	<i>Magnolia x loebneri</i>	25'	25'	491 sq. ft.	any	No	slow growing
Saucer Magnolia	<i>Magnolia x soulangiana</i>	25'	25'	491 sq. ft.	any	Yes	attractive pink flowers
Flowering Crabapple	<i>Malus spp.</i>	20'	20'	314 sq. ft.	any	Yes	many varieties
Persian Parrotia	<i>Parrotia persica</i>	30' 25'+	20'	314 sq. ft.	well drained	No	native range is Iran, Turkey, and Georgia
Myrobalan Plum	<i>Prunus cerasifera</i>	30'	20'	314 sq. ft.		No	highly susceptible to branch breakage and disease
Paperbark Cherry	<i>Prunus serrula</i>	25'	25'	491 sq. ft.	any	No	attractive bark
Japanese Flowering Cherry	<i>Prunus serrulata</i>	30'	30'	707 sq. ft.	any	No	susceptible to variety of diseases, not resistant to climate change
Yoshino Cherry	<i>Prunus x yedoensis</i>	30' 25'+	30'	707 sq. ft.	any	No	attractive flowers
Tall Stewartia	<i>Stewartia monadelphica</i>	30' 25'+	20'	314 sq. ft.	well drained	No	requires ample moisture when young
Japanese Stewartia	<i>Stewartia pseudocamellia</i>	20' 25'+	25'	491 sq. ft.	well drained	No	requires ample moisture when young
Japanese Snowbell	<i>Styrax japonicus</i>	25'	25'	491 sq. ft.	well drained	Yes*	mostly trouble free
Fragrant Styrax	<i>Styrax obassia</i>	25'	20'	314 sq. ft.	well drained	No	fragrant flowers
Japanese Tree Lilac	<i>Syringa reticulata</i>	20' 25'+	15'	177 sq. ft.	well drained	No	native to northern Japan

*These trees have been approved by Portland General Electric (PGE) for planting beneath overhead powerlines

Plant and Tree Selection Considerations

The right tree adds beauty and value to your home and requires minimal maintenance. Before choosing a tree, consider whether you're planting it for shade, to attract wildlife, to screen a view, or to add color or flowers. Then, as you're looking at your options, consider:

Space

- How tall will the tree be at maturity?
- What is the shape of the tree: upright, rounded or spreading?

Placement

- Can the tree mature without crowding buildings and other plants?
- Will the roots uplift sidewalks or driveways or damage foundations?
- Will the tree block visibility in driveways or intersections?
- Are there any possible changes in future uses of the site?
- Will the tree overhang and conflict with a neighbor's property?

Growing conditions

- Can the tree tolerate local climate and soil conditions?
Does it prefer shade or sun? A wet or dry spot?
- Is there enough soil area to give the tree the nutrients it needs?
- Is the tree strong enough to endure our typical winters?

Maintenance

- Is the tree susceptible to disease or insects?
- Will the tree require frequent spraying?
- If near a walkway, deck or patio, does the tree drop fruit or seeds?

City considerations

- Is the tree approved for street use?
- Are planting permits required?
- Does the city offer assistance in selecting an appropriate tree?

Utility considerations

- Can the tree mature without growing into overhead power lines?
- Are you making sure to plant the tree away from underground lines or transformer boxes?
(Call **811** before you dig to check.)



Good plants for screening a transformer

If you want to screen a transformer, one option is to plant something that can be cut down to the ground and grow back in a relatively short time. Grasses are a good choice, as well as a handful of other shrubs.

Below is a limited list of plants you might consider planting in front of a transformer. Some of these can be cut to the ground and regrow within a growing season.

<i>Pennisetum</i>	Fountain grass
<i>Calamagrostis</i>	Feather reed grass
<i>Miscanthus</i>	Silver grass or maiden grass
<i>Cornus sp.</i>	Red and yellow twig dogwoods
<i>Hydrangea</i>	Hydrangea
<i>Spirea</i>	Spirea
<i>Mahonia</i>	Oregon grape (native)
<i>Polystichum munitum</i>	Sword fern (native)
<i>Viburnum davidii</i>	David viburnum
<i>Arctostaphylos spp.</i>	Some manzanita types (native)

At minimum, plants should be **3 feet** away on all sides of the transformer to provide the space needed for cooling. Don't bury transformer in soil. That can cause the transformer to overheat.

As always, keep in mind planting conditions such as sunlight, irrigation and soil type. Remember that plants will grow, and that as they get wider, they still need to stay outside the clearance area.

Good trees to plant under power lines

For the space underneath power lines, these trees will work in most situations:

<i>Cercis canadensis</i>	Eastern redbud
<i>Cornus kousa</i>	Kousa dogwood
<i>Acer griseum</i>	Paperbark maple
<i>Acer circinatum</i>	Vine maple
<i>Amelanchier laevis</i>	Some amelanchier varieties
<i>Styrax japonicus</i>	Japanese styrax
<i>Pinus flexilis</i> "Vanderwolf's pyramid"	Vanderwolf pine

Many other trees are suitable under power lines, assuming they are no taller than **30 feet** at their mature height (or **15 feet** if under transmission lines). Many cities and counties also have recommended street trees under power lines.



Remember

PGE has the right to remove a plant or other object to gain access to safely inspect, operate and maintain equipment at any time.

The clearance for transformers is **3 feet** on all sides and **10 feet** in front.

Please note

Just because a tree is on one of these lists, it doesn't mean it's exempt from our maintenance. These lists are meant to give you some options that work well for a variety of scenarios.



STAY ON THE RIGHT SIDE OF THE “RIGHT OF WAY”

Power lines need a safe path from our generation sites to homes and businesses. This is called the power line right of way.

Overhead and underground lines, poles and other equipment are all within this right of way, which often runs along public property, like a parking strip. Sometimes, it goes over private property. In these cases, the right of way is covered by an easement, a type of real estate agreement that gives us access to work on lines and equipment.

Oregon law allows our crews to access private property so we can trim trees or work on equipment in the right of way. If we need to enter your property, we will notify you in advance, except in the case of an emergency. We might ask you to move vehicles, unlock gates or secure pets.

Tip: If you’re installing a structure, like a patio cover, garden shed or hot tub, make sure it’s safely outside the power line right of way and not blocking access to any related equipment. Also, don’t plant vines that will grow on poles or anchors or into power lines.

Learn more at portlandgeneral.com/rightofway.

WE COULD GO ON...

If you have questions about tree safety or maintenance, we have answers.

PGE VEGETATION MANAGEMENT

For more information about safety, maintenance and planting lists, go to portlandgeneral.com/trees or call the PGE Vegetation Management team at **503-736-5460**.

BEFORE YOU DIG

Call **811** before you dig

EMERGENCIES

Call **911** in case of an emergency

CUSTOMER SERVICE

Get help or report an outage or downed line at **503-228-6322**

PROPERTY SERVICES

503-464-2288 or portlandgeneral.com/rightofway



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Power lines and vegetation

Here’s how you can help ensure safe, reliable power in your neighborhood when it comes to trees and other vegetation.



HEALTHY TREES ARE PART OF HEALTHY COMMUNITIES

We love trees — we are Oregonians, after all! Healthy trees, shrubs and other plants are part of green infrastructure, which helps clean our air, beautify our neighborhoods, shade our homes and provide wildlife habitat.

To keep everyone safe, we need to keep trees and other vegetation away from power lines. Trees growing too close to power lines can trigger power outages or pose safety and fire risks.

Our contract tree crews are carefully trained to work near power lines, clearing away branches and vegetation so we can do maintenance work and equipment upgrades. Tree crews will visit your area every two to three years to inspect and prune trees along power line right of ways. Sometimes, we need to remove a tree before it becomes a hazard to the power line. We don’t make these decisions lightly, which is why we have arborists and forestry staff to guide us.

Choosing the right tree for the right place is the first step in making sure your tree can grow naturally to a mature size while your electricity stays reliable and safe. Read on to learn how.



Right tree, right place

Before you plant a tree or shrub or build any structure on your property, be sure it won't get in the way of electrical equipment. Here are some guidelines to follow.

POWER LINES

Plant only low-growing trees near power lines. See the illustration for specific height requirements. Remember to place structures, like garden sheds and fences, outside the power line right of way.

Transmission lines are larger, high-voltage power lines and aren't as common. If a transmission line runs on or near your property, you'll need to take special care. Avoid planting directly under these lines, and don't plant anything within 30 feet of transmission towers, poles or ground-based structures.

UNDERGROUND POWER

If you have a transformer on your property, it's important to maintain safety clearances on all sides. There are two types of transformers: pad-mounted (a locked cabinet on a concrete pad) and vault (an underground concrete enclosure).

The front, sides and back of this equipment should be clear of plants, large tree roots and fences (see the illustration).



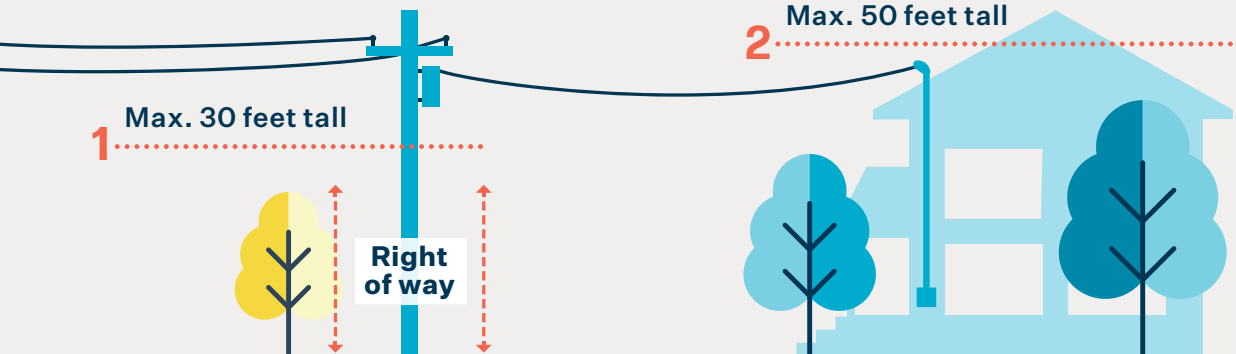
Help us work safely by keeping a clearance of 10 feet from the front of the equipment and 3 feet on all other sides.

PUT YOUR SAFETY FIRST

- Look up! Watch for overhead power lines when moving ladders or tools.
- Call 811 before you dig to have underground utilities marked. Call at least two business days prior to digging.
- Call PGE Vegetation Management at **503-736-5460** before trimming or removing trees near power lines.
- Tree branches conduct electricity! Keep kids away from trees that are near power lines.

CURIOS ABOUT WHAT TO PLANT?

Learn more about clearances for overhead and underground power and find a list of PGE-recommended trees and plants at portlandgeneral.com/righttree.



UNDER DISTRIBUTION POWER LINES

Distribution lines are primarily near roads and sidewalks, and sometimes backyards. Stick with small trees with a maximum mature height of 20-30 feet.

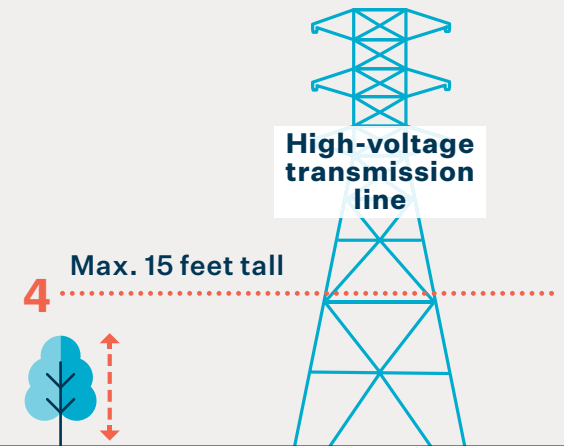
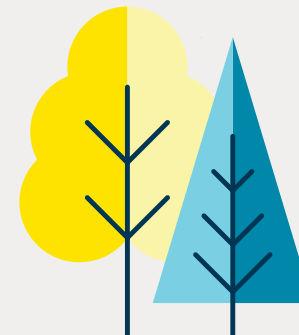
FRONT OR SIDE YARD (SOMETIMES BACKYARD)

This is usually where the power line drops from the pole into your building. Choose small to medium trees, depending on the size of your yard. Medium-sized trees (30-50 feet) require large, private lawn areas.

BACKYARD

Any size tree is okay, as long as there are no overhead lines. However, consider the size of your yard. Large trees (50+ feet) require a large yard.

3 50 feet or taller



NEAR TRANSMISSION LINES

If there's a high-voltage transmission line on or near your property, the tree should be no more than 15 feet tall and at least 30 feet away.